Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



aHD1491 .U5A47

Department of Agriculture

Rural Business-Cooperative Service

RBS Service Report 53



Farmer Cooperative Statistics, 1996



Abstract

A survey of U.S. farmer cooperatives for 1996 showed a record gross business volume of \$128.1 billion and a record net business volume of \$106.2 billion for the 3,884 cooperatives in the survey. Net income of \$2.25 billion in 1996 was down 4.9 percent from the record \$2.36 billion in 1995. Assets, liabilities, and net worth were up. Business volume by commodity handled is reported for all cooperatives. Cooperatives are classified according to marketing, farm supply, and service function. Trends in cooperative numbers, memberships, business size, sales volume, net income, assets, liabilities, and net worth are reported, along with data on selected activities of other service organizations.

Keywords: cooperatives, statistics, business volume, employees, memberships, balance sheet, net income.

Farmer Cooperative Statistics, 1996

Ralph M. Richardson, Celestine C. Adams, Katherine C. DeVille, Jacqueline E. Penn, and Charles A. Kraenzle

Rural Business-Cooperative Service

RBS Service Report 53

October 1997

Price: Domestic—\$5.00; foreign—\$5.50

Preface

Farmer cooperative statistics are collected annually to provide information on the progress and trends in cooperatives' growth and development. These statistics are used for research, technical assistance, education, planning, and public policy. Acquiring, analyzing, and disseminating farmer cooperative statistics by USDA is authorized by the Cooperative Marketing Act of 1926.

This report provides aggregate information on the number, membership, business volume, and net income of farmer cooperatives. Cooperatives are classified by principal product marketed and major functional type. Fishery cooperatives are included as miscellaneous marketing cooperatives. Both gross (includes intercooperative business) and net (excludes intercooperative business) dollar volumes are reported.

Statistics for 1996 were compiled on a national basis only. Data by State are compiled and reported every other year. State data for 1995 appear in the appendix.

The information was collected from individual farmer and fishery cooperatives by a mail survey of all organizations identified by USDA's Rural Business-Cooperative Service (RBS) as farmer or aquacultural cooperatives. Additional information was collected from local farm supply and marketing cooperatives for a special study of their fertilizer operations. Information was requested for their 1996 business year.

RBS conducts an annual census because of the need to make accurate estimates for all cooperatives and the need for current data on individual cooperatives for research, education, and technical assistance purposes.

Statistics for all cooperatives were generated by adding data estimated for nonrespondents to respondent data. Responses to the 1996 survey accounted for 87.7 percent of the total gross sales of farmer cooperatives.

RBS depends on the cooperative community's response to its annual survey to develop a detailed and comprehensive set of statistics on farmer cooperatives. The time taken by cooperatives to provide information and the timeliness with which it is furnished are greatly appreciated.

Contents

HLIGHTS	
DEFINITION OF A FARMER COOPERATIVE	1
Classification of Cooperatives	1
Organizational Membership Structures	
·	
· ·	
·	
·	
· ·	
OTHER SERVICE COOPERATIVES	
Farm Credit System	. 22
Rural Telephone Cooperatives	. 25
Rural Electric Cooperatives	. 25
Rural Credit Unions	
Dairy Herd Improvement Associations	. 26
1 FO	
	2
by grain and farm supply cooperatives 1992-96	5
e 4— Farmer cooperatives grouped by gross business volume, 1996	7
e 5— Cooperatives' gross and net business volumes by commodity, 1996	8
e 6— Cooperatives' net income, 1996	. 10
e 8— Combined assets of farmer cooperatives, 1996	. 12
·	. 16
·	
e 13— Cooperatives' net business volume, 1987 and 1996	. 18
e 15— Cooperatives net income, 1987-96	
e 10— Combined Daiance Sheet data for lattilet Cooperatives, 130/-30	. 47
e 17— Farm Credit Association structure, January 1, 1997	
	DEFINITION OF A FARMER COOPERATIVE Classification of Cooperatives Organizational Membership Structures 1996 STATISTICS Number of Cooperatives Memberships Business Size Business Volume Net Income Balance Sheet Selected Financial Ratios Fertilizer Operations of Local Cooperatives COOPERATIVE TRENDS, 1987-96 Number of Cooperatives Memberships Employees Business Volume Net Income Balance Sheet OTHER SERVICE COOPERATIVES Farm Credit System Rural Telephone Cooperatives Rural Electric Cooperatives Rural Credit Unions Dairy Herd Improvement Associations LES et I— Number of cooperatives and memberships, by major business activity, 1996 et 2— Number of cooperatives operated by grain and farm supply cooperatives, 1992-96 et 4— Farmer cooperatives grouped by gross business volume, 1996 et 5— Cooperatives' gross and net business volumes by commodity, 1996 et 6— Cooperatives' net income, 1996 et 7— Combined balance sheet data for farmer cooperatives, 1996 et 8— Combined assets of farmer cooperatives, 1996 et 9— Selected financial ratios of cooperatives, 1996 et 9— Selected financial ratios of cooperatives, 1996 et 10— Number of farmer cooperatives, 1997 et 11— Memberships in marketing, farm supply, and service cooperatives, 1987-96 et 11— Memberships in marketing, farm supply, and service cooperatives, 1987-96 et 12— Number of farmer cooperatives and full-time employees, 1994-96 et 13— Cooperatives' net business volume, 1987 and 1996 et 14— Cooperatives' net business volumes, 1987-96 et 14— Cooperatives' net business volumes, 1987-96 et 15— Cooperatives' net business volumes, 1987-96 et 16— Cooperatives' net income, 1987-96

Contents

Table 19— Farm Credit System banks' and associations' combined assets,
net worth, net loans, and net income, 1992-96
cooperatives, by State, December 31, 1996
Table 21— Number, participation, and level of activity of rural electric
cooperatives, by State, December 31, 1996
Table 22— Number, participation, and level of activity of rural credit unions,
by State, December 31, 1996
Table 23— Number, participation, and level of activity of dairy herd
improvement associations, by State, December 31, 1996
APPENDIX TABLES
Appendix table 1— Number of co-ops and memberships by major business activity
and State, 1995
Appendix table 2— Cooperative business volume by commodity and State, 1995 3-
FIGURES
Figure 1— Number of Cooperatives by Function, Leading States, 1996
Figure 2— Branches of Grain and Farm Supply Cooperatives by Size, 1996
Figure 3— Distribution of Total Memberships by Type of Cooperative, 1996
Figure 4— Distribution of Farmer Cooperatives and Gross Business Volume,
by Size, 1996
Figure 5— Relative Importance of Farm Products Marketed by Cooperatives, 1996
Figure 6— Relative Importance of Farm Supplies Handled by Cooperatives, 1996
Figure 7— Cooperatives' Net Income by Cooperative Type, 1996
Figure 8— Percentage of Cooperatives' Assets Financed by Net Worth, by
Cooperative Type, 1996
Figure 9— Farmer Cooperatives in the United States, 1987-96
Figure 10— Cooperatives Removed from CS' List, 1987-96
Figure 11— Total Cooperative Memberships by Function, 1987-96
Figure 12— Cooperatives' Net Business Volume, 1987-96
Figure 13— Cooperatives' Net Sales of Selected Commodities, 1987-96
·
Figure 14— Cooperatives' Net Sales of Selected Farm Supplies, 1987-96 2
Figure 15— Cooperatives' Net Income, 1987-96
Figure 16— Cooperatives' Net Worth and Total Liabilities, 1987-9623
APPENDIX FIGURES
Appendix Figure 1— Cooperatives' Net Business Volume, 1972-96
Appendix Figure 2— Cooperatives' Gross and Net Business Volumes, 1972-96 4
Appendix Figure 3— U.S. Farms and Farmer Cooperative Memberships, 1972-96 . 44
Appendix Figure 4— Distribution of Farmer Cooperatives
by Type of Cooperative, 1996
Appendix Figure 5— Distribution of Net Income by Type of Cooperative, 1996 46
Appendix Figure 6— Distribution of Losses by Type of Cooperative, 1996 47
Appendix Figure 7— Distribution of Net Worth by Type of Cooperative, 1996 48
Appendix Figure 8— Distribution of Full-Time Employees
by Type of Cooperative, 1996
Appendix Figure 9— Average Number of Full-Time Employees Per Cooperative,
by Type of Cooperative, 1996
Appendix Figure 10— Cooperatives' Investments in Other Cooperatives, 1987-96 5

Highlights

The 1996 survey of marketing, farm supply, and related-service cooperatives showed a record net business volume, but a decrease in net income, memberships, and number of organizations.

- Total net income of \$2.25 billion was down from the record \$2.36 billion reported for 1995. The 1996 net included intercooperative dividends and refunds of \$711.9 million—up 30.9 percent from \$543.8 million.
- Total gross business volume (includes intercooperative business) handled by cooperatives increased 14.2 percent, to a record \$128.1 billion from \$112.2 billion.
- Total net business (excludes intercooperative business) was up 13.2 percent, to \$106.2 billion from \$93.8 billion.
- The number of cooperatives declined more than 3 percent, from 4,006 to 3,884.
- Grain and farm supply cooperatives operated an estimated 5,355 branches in 1996, up from 5,101 in 1995.
- Total cooperative memberships of 3,663,584 decreased 2.8 percent from 3,767,295.
- Gross value of farm products marketed by cooperatives in 1996 increased 15.8
 percent from nearly \$78 billion to \$90.3 billion. Net value of these farm products,
 after deducting intercooperative business, was \$79.4 billion, up 14.6 percent from
 \$69.3 billion.
- Gross value of farm supplies handled by farmer cooperatives was up 12.2 percent, from \$31 billion to \$34.7 billion. After adjusting for intercooperative business, the increase was 11.5 percent, from \$21.2 billion to \$23.7 billion.
- Receipts for services related to marketing farm products and handling farm supplies, plus other income, were down 5.6 percent to \$3.1 billion.
- Number of full-time employees totaled 174,795 down 0.3 percent from the 175,399 reported for 1995.
- Combined assets for all farmer cooperatives increased 5.7 percent to \$42.6 billion.
 Net assets, after eliminating intercooperative investments, were up 5 percent, from \$37.3 billion to \$39.2 billion.
- Total liabilities of \$25.2 billion were up 6.6 percent from \$23.6 billion.
- Net worth, or member and patron equity, was up 4.6 percent, to \$17.4 billion.
 Member and patron equity financed 40.8 percent of total assets, down from 41.3 percent in 1995 and 43.4 percent in 1994.
- Leading States in terms of number of cooperatives were Minnesota, North Dakota, Texas, and Iowa. They accounted for 1,178, or 30.3 percent, of the 3,884 farmer cooperatives.

Highlights Capsule			
,	1996	1995	Change
Number of cooperatives	3,884	4,006	(122)
Memberships	3,663,584	3,767,295	(103,711)
Gross business volume (mil. dol.)	128,098	112,195	15,903
Net business volume (mil. dol.)	106,182	93,818	12,364
Net income (mil. dol.)	2,248	2,363	(115)
Total assets (mil. dol.)	42,588	40,274	2,314
Net worth (mil. dol.)	17,392	16,631	761
Full-time employees	174,795	175,399	(604)
Leading States	1996	1995	
Leading States	1990	1995	
Number of cooperatives	Minnesota 378	Minnesota 389	(11)
	1995	1993	(**/
Memberships	Minnesota 329,241	Minnesota 392,815	(63,574)
	California	California	
Net business volume (mil. dol.)	8,891	8,349	542

Farmer Cooperative Statistics, 1996

Ralph M. Richardson, Celestine C. Adams, Katherine C. DeVille, Jacqueline E. Penn, and Charles A. Kraenzle¹

I—Definition of a Farmer Cooperative

The Rural Business-Cooperative Service (RBS) of USDA's Rural Development considers four major criteria in identifying an organization as a farmer cooperative: (1) Membership is limited to persons producing agricultural and aquacultural products, and to associations of such producers; (2) cooperative members are limited to one vote despite the amount of stock or membership capital owned, or the cooperative does not pay dividends on stock or membership capital in excess of 8 percent a year, or the legal rate in the State, whichever is higher; (3) business conducted with nonmembers may not exceed the value of business done with members; and (4) the cooperative operates for the mutual interest of members by providing benefits on the basis of patronage.

These criteria may create larger or smaller numbers of farmer cooperatives than found in lists or directories of State agencies or cooperative councils. RBS includes only marketing, farm supply, and related-service cooperatives on its list. Fishery cooperatives are included with miscellaneous marketing cooperatives. Wool pools are included as marketing cooperatives. Livestock shipping associations and rice drying cooperatives, beginning with 1992 and 1993, respectively, are considered service cooperatives.

Many State lists include other types, such as production, credit, telephone, electric, and consumer cooperatives, as well as those that do not meet the USDA definition. Other reasons for possible differ-

¹ Ralph M. Richardson, agricultural statistician; Celestine C. Adams, agricultural statistician; Katherine C. DeVille, statistical assistant; Jacqueline E. Penn, statistical assistant; and Charles A. Kraenzle, director, Statistics.

ences between the USDA list and State lists in the number of cooperatives is that: (1) USDA may not learn until sometime later of certain cooperatives operating in a State; (2) a cooperative may not have completed and returned an initial questionnaire; or (3) no notice is received that a cooperative discontinued operating.

Year-to-year comparisons for specific commodity groups, therefore, should reflect any differences in lists and classifications in State and Federal data.

Classification of Cooperatives

Statistics are presented according to a cooperative's major function or classification—marketing, farm supply, and related-service.

Marketing cooperatives derive most of their total dollar volume from the sale of members' farm products. USDA classifies these cooperatives into one of 13 commodities or commodity groups depending upon which accounts for most of its business volume. USDA reclassifies a cooperative if its primary business volume changes.

<u>Farm supply</u> cooperatives derive most of their business volume from farm production supply sales including farmstead equipment and building materials. Many also handle farm and home items, such as heating oil, lawn and garden supplies and equipment, and food.

<u>Service</u> cooperatives provide specialized business services related to the agricultural business operations of farmers, ranchers, or cooperatives, such as cotton ginning, trucking, storing, drying, and artificial insemination. Livestock shipping associations were reclassified from marketing to service in 1992. Rice drying cooperatives, previously listed with rice marketing cooperatives, were added in 1993.

Many cooperatives handle multiple commodities

and provide both marketing and farm supply services, as well as the facilities and equipment used to perform these services. These associations are classified according to the predominant commodity or function, as indicated by their business volume.

Information on other types of service cooperatives, such as Farm Credit System institutions, rural credit unions, rural electric cooperatives, and dairy herd improvement associations, is presented separately.

Organizational Membership Structures

Centralized

Of the 3,884 farmer cooperatives in 1996, 3,775 were centralized organizations—mostly locals with individual farmer-members. Centralized cooperatives usually serve a local area or community, county, or several counties. Most usually perform a limited number of initial marketing functions. Most farm supply sales are at the retail level. A few centralized cooperatives, principally regionals, operate over large geographic areas and have members in several States. They often provide more vertically integrated services, such as processing farm products or manufacturing feed and fertilizer.

Bargaining associations also have a centralized organizational structure. They derive all or most of their business volume from negotiating with distributors, processors, and other buyers and sellers over price, quantity, grade, terms of sale, and other factors involved in marketing farm products. Only a few bargain to purchase farm supplies. While the primary function of such an association is to bring buyers and sellers together to contract for the sale of members' products, many bargaining associations now perform additional functions.

For example, dairy bargaining associations at one time only negotiated price. Now, many perform additional functions, such as physically handling part of the milk for spot sales. They, like other dairy marketing cooperatives, represent their members at Federal and State milk marketing order hearings.

Federated

Federated cooperatives comprise two or more member associations organized to market farm products, purchase production supplies, or perform bargaining functions.

The 70 associations identified as federated often operate at points quite distant from their headquarters. Federated cooperative members are usually local coop-

eratives. Some federations are interregional associations whose members are regional cooperatives.

Mixed

A few cooperatives have both individual farmer-members and autonomous cooperative members. These associations, a combination of centralized and federated structures, serve large geographic areas, with members in many States, and provide a variety of integrated services. USDA has identified 39 such cooperatives.

II—1996 Statistics

Cooperatives' net business volume of \$106.2 billion in 1996 was a record high. Net income of \$2.25 billion, however, was down from the \$2.36 billion reported for 1995. Number of cooperatives and memberships, at 3,884 and 3,663,584, respectively, were also down. Combined assets, net worth, and liabilities were all up.

Number of Cooperatives

The 1996 survey accounted for 3,884 marketing, farm supply, and related-service ³ cooperatives, compared with 4,006 in 1995. The net decrease of 122 associations (3 percent) largely reflects a continuing trend involving dissolution, merger, or acquisition.

Of the 3,884 cooperatives, 2,012 primarily marketed farm products, 1,403 handled primarily farm production supplies, and 469 provided services related to marketing or purchasing activities (table 1).

Marketing cooperatives accounted for 51.8 percent of the total number of cooperatives, unchanged from 1995; farm supply cooperatives decreased slightly from 36.4 percent to 36.1 percent; and related-service cooperatives increased from 11.8 percent to 12.1 percent.

These changes to some extent reflect reclassification because of dollar volume changes. In any given year, sales of farm supplies or grains and oilseeds

² Preliminary information released earlier in the year showed cooperatives' net income a record high in 1996. However, net income for 1996 was later revised downward due to additional information received. Net income for 1995 was also revised.

³ Services include trucking, cotton ginning, storage, crop drying, artificial insemination, livestock shipping, and similar services affecting the form, quality, or location of farm products and supplies. They do not include credit, electric, telephone, or other such services not directly related to marketing or purchasing activities.

could be higher due to market supply and demand conditions. During 1996, for example, grain and oilseed prices were significantly higher, resulting in a larger dollar volume of grain sales for many cooperatives.

Cooperative numbers by State and major function are shown in table 2. The leading States were Minnesota (378), North Dakota (288), Texas (277), and Iowa (235). These four States accounted for 1,178 cooperatives, or 30.3 percent of the total. A cooperative's location is based on its headquarters.

The 10 leading States in terms of number of cooperatives are shown in figure 1. It also shows the number of cooperatives by function in each State. For example, Minnesota had about the same number of marketing and farm supply cooperatives. Texas' majority were service cooperatives, mainly cotton gins. In Wisconsin, the fifth leading State, farm supply cooperatives were the most numerous. South Dakota, Iowa, and Nebraska had the fewest service cooperatives. California, on the other hand, had the smallest number of farm supply cooperatives.

Table 1— Number of cooperatives and memberships, by major business activity, 1996

Major business activity	Cooperatives	Memberships
	Nur	mber
Beans and peas, dry edible	9	4,013
Cotton	16	42,561
Dairy	237	111,374
Fruits and vegetables	267	46,799
Grains and oilseeds 1	1,066	783,427
Livestock	89	278,826
Nuts	19	48,036
Poultry ²	16	32,320
Rice	19	14,831
Sugar	49	11,800
Tobacco	26	266,693
Wool and mohair	97	17,492
Miscellaneous	<u>102</u>	24.236
Total marketing	2,012	1,682,408
Farm supply	1,403	1,794,671
Service	469	186,505
Total	3,884	3,663,584

¹ Excludes cottonseed. Cottonseed sales were included with cotton. Cottonseed meal and oil were included with feed and miscellaneous, respectively.

Table 2— Number of cooperatives, 1 by major function and State, 1996 2

	Major function				
State	Marketing	Farm Supplies	Service	Total	
	Number				
Alabama	11	48	5	64	
Alaska	10	_	_	10	
Arkansas	15	41	6	62	
California	117	19	48	184	
Illinois	134	67	5	206	
Iowa	159	73	3	235	
Kansas	128	21	4	153	
Louisiana	18	22	13	53	
Maryland	3	15	3	21	
Massachusetts	10	4	_	14	
Michigan	46	30	5	81	
Minnesota	180	156	42	378	
Mississippi	23	38	25	86	
Montana	42	39		81	
Nebraska	86	45	3	134	
New York	76	11	5	92	
North Dakota	163	116	9	288	
Ohio	70	20	7	97	
Oklahoma	51	30	26	107	
Pennsylvania	48	7	7	62	
South Dakota	77	72	_	149	
Texas	66	51	160	277	
Vermont	6	_	_	6	
Washington	57	31	4	92	
West Virginia	14	13	_	27	
Wisconsin	47	125	50	222	
Wyoming	7	6	_	13	
Other States ³	348	303	39	690	
United States	2,012	1,403	469	3,884	

^{- =} None identified.

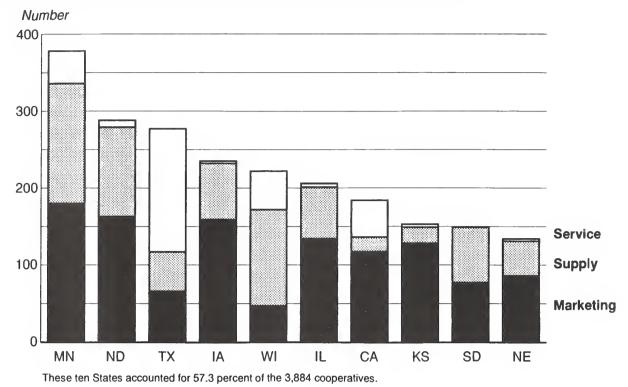
² Includes eggs, turkeys, ratite, squab, and related products.

¹ Includes centralized and federated cooperatives and those with mixed organizational structures.

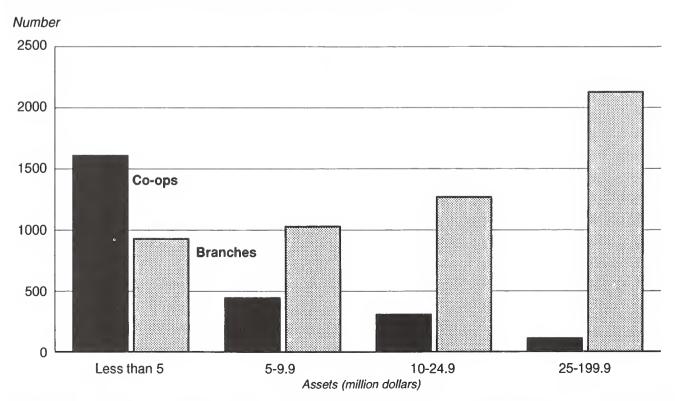
² Data covering operations of cooperatives for fiscal years that ended in 1996.

³ Includes States with fewer than three cooperatives for any function. States with three or more cooperatives were: Arizona, 10; Colorado, 54; Connecticut, 4; Delaware, 3; Florida, 50; Georgia, 21; Hawaii, 33; Idaho, 42; Indiana, 62; Kentucky, 44; Maine, 23; Missouri, 72; New Jersey, 19; New Mexico, 9; North Carolina, 28; Oregon, 39; South Carolina, 6; Tennessee, 79; Utah, 21; Virginia, 66.









Grain and Farm Supply Branches

Many cooperatives operate facilities at branch locations to better serve their members. Most are owned, although some are leased. A number were formerly independent cooperatives serving a local community. For economic or other reasons, many were acquired by or merged with other cooperatives and operated as branches from which to serve members and patrons at outlying locations.

As shown in table 3 and figure 2, grain and farm supply cooperatives operated an estimated 5,355 branches—2,326 and 3,029, respectively. In 1995, grain and farm supply cooperatives operated an estimated 5,101 branches.

Figure 2 shows that several of the largest (mainly regional) cooperatives had more branches than many smaller (local) cooperatives combined. For example, the 43 largest grain cooperatives, or 4 percent of their

total number, accounted for 29.7 percent of the total number of branches operated by grain cooperatives.

Memberships

Memberships in marketing, farm supply, and related-service cooperatives totaled 3,663,584 in 1996, down 2.8 percent from 3,767,295 in 1995 (table 1).

By type, 49 percent were memberships of farm supply cooperatives (figure 3), 21.4 percent of grain, and 20 percent of livestock, tobacco, and service. Only 3 percent of cooperatives' total memberships were of dairy cooperatives, which accounted for 21.6 percent of cooperatives' net business volume in 1996.

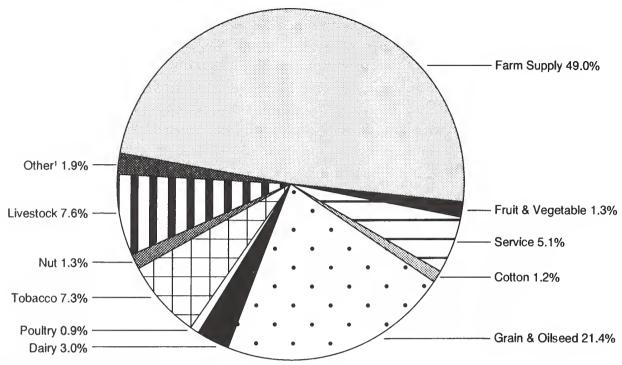
Business Size

Farmer cooperatives, measured by gross business volume, increased in size. Most remain small and serve local areas. Several are actively seeking regional,

Table 3— Estimated number of branches operated by grain and farm supply cooperatives, 1992-96

		Asset Group (million dollars)				
Year	Less than 5	5 - 9.9	10 - 24.9	25 or more	Total	
			Number of Grain Cod	peratives		
1992	902	211	114	16	1,243	
1993	808	233	131	21	1,193	
1994	772	226	138	24	1,160	
1995	658	223	174	35	1,090	
1996	618	229	176	43	1,066	
			Number of Bran	ches		
1992	441	480	529	417	1,867	
1993	410	479	688	488	2,065	
1994	408	535	674	424	2,041	
1995	399	440	756	577	2,172	
1996	387	505	743	691	2,326	
		Nui	mber of Farm Supply	Cooperatives		
1992	1,332	176	45	65	1,618	
1993	1,206	185	96	60	1,547	
1994	1,129	201	99	68	1,497	
1995	1,060	213	120	65	1,458	
1996	991	215	131	66	1,403	
			Number of Bran	ches		
1992	724	482	208	1,363	2,777	
1993	642	455	297	1,320	2,714	
1994	610	468	344	1,365	2,787	
1995	571	502	460	1,396	2,929	
1996	542	523	526	1,438	3,029	

Figure 3— Distribution of Total Cooperative Memberships by Type of Cooperative, 1996



Percent based on 3,663,584 memberships.

national, and even international markets to increase business volume.

The increased size of individual cooperatives comes in part from mergers and acquisitions. However, data used were not adjusted for changes in price levels, and some size changes resulted from inflationary effects.

In 1996, 75.4 percent of all farmer cooperatives reported business volumes of less than \$15 million, down from 78.5 percent in 1995. They accounted for only 10.2 percent of the total gross dollar volume (table 4 and figure 4). Only 1.8 percent of farmer cooperatives reported business volumes of at least \$250 million in 1996. These cooperatives, however, accounted for 59.3 percent of the total business volume, up from 57.9 percent in 1995.

Business Volume

Total gross business volume of the 3,884 marketing, farm supply, and related-service cooperatives for 1996 was a record \$128.1 billion (table 5), up 14.2 percent from the previous record of \$112.2 billion in 1995.

Total net business volume of farmer cooperatives in 1996 was \$106.2 billion—\$79.4 billion for farm prod-

ucts marketed, \$23.7 billion for farm supplies sold, and \$3.1 billion for services provided and from other income. The total net figure, which excludes intercooperative business (the difference between gross and net business volumes), increased 13.2 percent from \$93.8 billion in 1995. However, adjusting for price change, net business volume increased only 5.7 percent. 4

Gross volume of farm products marketed by cooperatives increased 15.8 percent, from \$77.9 billion in 1995 to \$90.3 billion in 1996. The net volume of farm products marketed was \$79.4 billion, or 74.8 percent of the total net volume of cooperatives. This represents an increase of 14.6 percent from \$69.3 billion.

Figure 5 illustrates the leading products marketed by cooperatives based on net marketing business volume. Grains and oilseeds (excluding cottonseed) led with 34.8 percent, followed by milk and milk products with 28.9 percent. Fruits and vegetables ranked third with 11.8 percent of net marketing business

Includes dry bean and pea, wool and mohair, rice, sugar, and miscellaneous marketing cooperatives.

Deflated 1996 cooperative business volume was \$99.2 billion, up 5.7 percent from the actual \$93.8 billion in 1995. The \$99.2 billion was derived by deflating farm products marketed by the index of prices received for all farm products (1982 = 100), and farm supplies (inputs) and service income by the index of prices paid by farmers for production items (1982 = 100).

Figure 4— Distribution of Farmer Cooperatives and Gross Business Volume, by Size, 1996

Percent of total

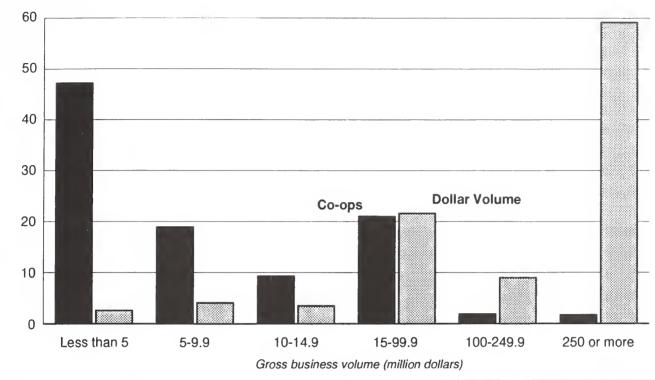


Table 4— Farmer cooperatives grouped by gross business volume, 1996 ¹

Volume group	Coo	Cooperatives		olume
(mil. dol.)	Number	Percent of total	Gross ² (mil. dol.)	Percent of total
Lasathan 5.0	4.004	47.0	0.075.0	0.6
Less than 5.0	1,834	47.2	3,375.3	2.6
5 - 9.9	733	18.9	5,254.8	4.1
10 - 14.9	362	9.3	4,458.9	3.5
15 - 24.9	349	9.0	6,723.3	5.2
25 - 49.9	326	8.4	11,354.1	8.9
50 - 99.9	140	3.6	9,525.6	7.4
100 - 199.9	56	1.4	7,947.9	6.2
200 - 249.9	16	0.4	3,591.4	2.8
250 - 499.9	30	0.8	11,237.4	8.8
500 - 999.9	20	0.5	13,962.7	10.9
1,000 and more	18	0.5	50,667.1	39.6
Total	3,884	100.0	128,098.5	100.0

¹ Business volume includes revenues from marketing plus the value of products bargained for or handled on a commission basis, supply sales, service receipts, and other income.

² Includes intercooperative business volume. Total may not add due to rounding.

volume. In 1995, grains and oilseeds accounted for 28.7 percent and milk and milk products 31.4 percent.

Gross volume of all farm supplies handled by cooperatives was \$34.7 billion, up 12.2 percent from \$31 billion in 1995. Net farm supply volume of \$23.7 billion accounted for 22.3 percent of the total net business volume, up 11.5 percent from \$21.2 billion.

Sales of all farm supply items were up from 1996. The leading farm supplies handled by cooperatives in

terms of net farm supply business volume were petroleum, 26.6 percent, up from 24.6 percent in 1995; feed, 22.8 percent; and fertilizer, 22 percent (figure 6).

Receipts for services performed by marketing, farm supply, and related-service cooperatives, plus other income, amounted to \$3.1 billion, down 5.6 percent. Service receipts and other income represented 2.9 percent of total net business volume.

The 1995 estimated volume of farm products

Table 5— Cooperatives' gross and net business volumes by commodity, 1996 1

Commodity	Gross volume		Net volume		
	Million dollars	Percent	Million dollars	Percent	
Products marketed:					
Beans and peas (dry edible)	179.0	0.1	179.0	0.2	
Cotton	2,734.9	2.1	2,658.6	2.5	
Dairy	25,969.5	20.3	22,934.5	21.6	
Fruits and vegetables	9,914.3	7.7	9,392.0	8.8	
Grains and oilseeds					
excluding cottonseed	33,889.4	26.5	27,656.9	26.1	
_ivestock	6,745.6	5.3	6,725.2	6.3	
Nuts	951.6	.7	951.6	.9	
Poultry ³	2,122.7	1.7	1,754.1	1.7	
Rice	901.1	0.7	899.8	0.8	
Sugar	2,015.8	1.6	1,933.3	1.8	
Tobacco	1,412.0	1.1	1,412.0	1.3	
Wool and mohair	13.3	(2)	7.9	(2)	
Miscellaneous ⁴	3,420.5	2.7	2,923.6	2.8	
Total farm products	90,269.7	70.5	79,428.6	74.8	
Supplies purchased:					
Crop protectants	3,929.1	3.1	2,829.2	2.7	
eed	7,367.3	5.8	5,388.0	5.1	
- ertilizer	8,727.2	6.8	5,200.6	4.9	
Petroleum	9,752.7	7.6	6,295.2	5.9	
Seed	879.0	0.7	658.5	0.6	
Other supplies 5	4,072.9	3.2	3,281.3	3.1	
Total farm supplies	34,728.3	27.1	23,652.6	22.3	
Services provided:					
Frucking, cotton ginning,					
storage, grinding, locker					
plants, misc. ⁶	3,100.4	2.4	3,100.4	2.9	
Total business	128,098.5	100.0	106,181.6	100.0	

¹ Gross includes and net excludes intercooperative business. Totals may not add due to rounding.

² Less than 0.05 percent.

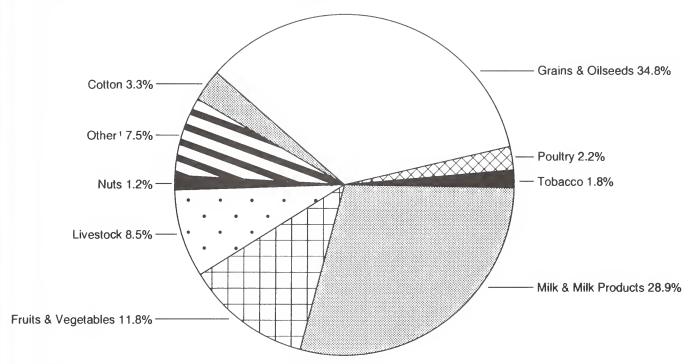
³ Includes eggs, turkeys, ratite, squab, and related products.

Includes coffee, fish, forest products, hay, hops, seed marketed for growers, nursery stock, other farm products not separately classified, and sales of farm products not received directly from member-patrons. Also includes manufactured food products and resale items marketed by cooperatives.

Includes building materials, containers and packaging supplies, farm machinery and equipment, meats and groceries, automotive supplies, hardware, chicks, and other supplies not separately classified.

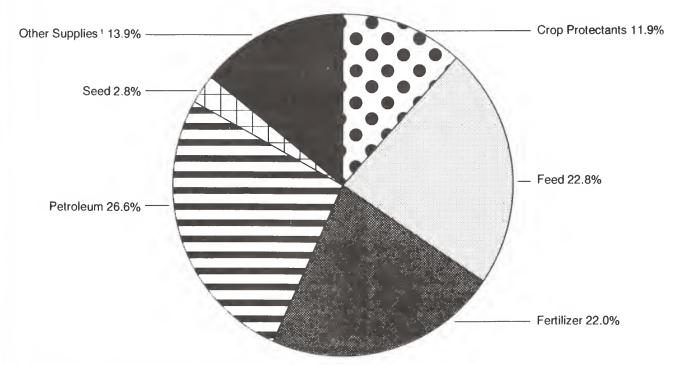
⁶ Charges for services related to marketing or purchasing not included in the volume reported for those activities, plus other income.

Figure 5— Relative Importance of Farm Products Marketed by Cooperatives, 1996



Percent based on a net marketing business volume of \$79.4 billion.

Figure 6— Relative Importance of Farm Supplies Handled by Cooperatives, 1996



Percent based on a net farm supply business volume of \$23.7 billion.

¹ Includes dry beans and peas, wool and mohair, rice, sugar and miscellaneous marketings.

¹ Includes building materials; tires, batteries, and accessories; equipment; animal health products; pet food; semen; hardware; food; clothing; etc.

marketed, farm supplies sold, and services provided by cooperatives is shown by State in appendix table 2.

Net Income

Total net income (considering losses and before taxes) for all cooperatives in 1996 was \$2.25 billion. This includes intercooperative dividends and refunds (table 6). Cooperatives operating strictly on a pooling basis were excluded. Net income was down 4.9 percent from the record of \$2.36 billion in 1995. Patronage refunds received from other cooperatives of \$711.9 million was up a robust 30.9 percent from \$543.8 million. Most of the increase, \$168.1 million, in patronage refunds was received by grain and farm supply cooperatives. In 1996, farm supply and grain cooperatives accounted for 46.2 percent and 31.2 percent, respectively, of the patronage refunds received from other cooperatives.

Marketing cooperatives' net income of \$1,181 million was down 16.8 percent from the \$1,418.7 million generated in 1995. Cooperatives handling primarily grains and oilseeds accounted for 31.9 percent of the net income in 1996, milk and milk products 31.7 percent, and livestock and poultry 18.9 percent.

Together, they accounted for the largest proportion (82.5 percent) of marketing cooperatives' net income and 43.4 percent of total net income of all cooperatives.

Farm supply cooperatives accounted for 41.9 percent of cooperatives' total net income in 1996, compared with 34.2 percent in 1995. Income from farm supply cooperatives' own operations was \$612.4 million (figure 7), compared with \$557.8 million in 1995, an increase of 9.8 percent. Refunds from other cooperatives of \$329 million was up from \$250.4 million.

Farmer cooperatives' net income from own operations in 1996 totaled \$1,536.6 million—down 15.6 percent from \$1,819.7 million. Nearly 31.7 percent, or \$711.9 million, of total net income was dividends and patronage refunds from other cooperatives, up from \$543.8 million in 1995. Marketing cooperatives' net income from other cooperatives totaled \$352.1 million and accounted for 29.8 percent of their total. Grain cooperatives' net income from other cooperatives was \$222.2 million, or 58.9 percent of their total.

Income before losses equaled \$2,435.3 million. Losses from an estimated 530 cooperatives totaled \$187.8 million in 1996, compared with \$98.1 million in 1995.

Principal products marketed and major function	Co-ops ²	Total net income	Income from own operations	Income from other co-ops ³
	Number		Million dollars	
Products marketed:				
Cotton	16	84.2	83.5	0.7
Dairy	237	373.9	265.7	108.2
ruits & vegetables	267	58.0	52.7	5.3
Grains and oilseeds				
excluding cottonseed	1,066	377.0	154.9	222.2
ivestock and poultry	105	223.5	212.5	11.0
Rice	19	12.3	12.3	
Sugar	49	9.1	9.0	0.04
Other products 4	253	42.9	38.3	4.7
otal farm products	2,012	1,181.0	829.0	352.1
otal farm supplies	1,403	941.5	612.4	329.0
otal related services	469	125.0	94.2	30.8
Combined total	3,884	2,247.5	1,535.6	711.9

^{-- =} Less than .05 million.

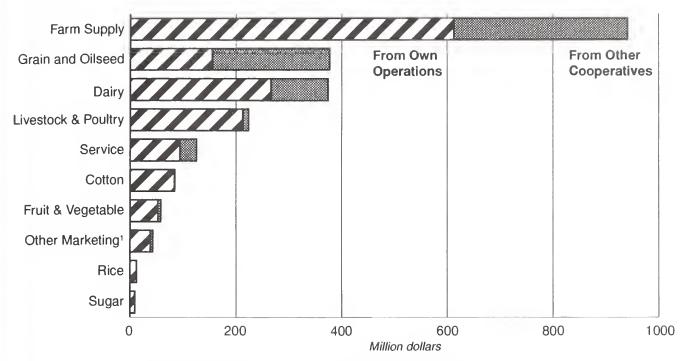
¹ Number of cooperatives includes those operating on a pooling rather than a net margin basis. Totals may not add due to rounding.

² Many cooperatives have multi-product and multi-function operations. Most are classified according to predominant commodity or function as indicated by business volume.

³ Excludes patronage refunds from CoBank and Bank for Cooperatives.

⁴ Includes dry edible beans and peas, nuts, tobacco, wool, and miscellaneous products.

Figure 7— Cooperatives' Net Income by Cooperative Type, 1996



¹ Includes dry bean and pea, nut, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

Table 7— Combined balance sheet data for farmer cooperatives, 1996 1

Principal products marketed and major function	Co-ops ²	Total assets	Total liabilities	Net worth	
	Number		Million dollars		
Products marketed:	•				
Cotton	16	778.4	428.2	350.2	
Dairy	237	5,679.3	3,506.9	2,172.4	
Fruits & vegetables	267	5,275.2	3,682.2	1,593.0	
Grains and oilseeds					
excluding cottonseed	1,066	9,445.8	5,612.7	3,833.0	
Livestock and poultry	105	4,048.6	2,788.0	1,260.6	
Rice	19	578.1	343.1	235.0	
Sugar	49	1,085.5	648.7	436.7	
Other products ³	253	3,015.2	1,831.8	1,183.4	
Total farm products	2,012	29,906.0	18,841.6	11,064.3	
Total farm supplies	1,403	11,848.1	6,065.1	5,782.9	
Total related services	469	833.4	288.6	544.8	
Combined total	3,884	42,587.5	25,195.4	17,392.1	

¹ Totals may not add due to rounding.

² Many cooperatives have multi-product and multi-functional operations. Most are classified according to predominant commodity or function, as indicated by business volume.

³ Includes dry edible beans and peas, nuts, tobacco, wool, and miscellaneous products.

Balance Sheet

Combined assets for all farmer cooperatives totaled nearly \$42.6 billion in 1996, up 5.7 percent from \$40.3 billion in 1995 (table 7). Excluding intercooperative investments, assets of cooperatives totaled \$39.2 billion, compared with \$37.3 billion, a 5-percent increase.

Total liabilities were \$25.2 billion, up 6.6 percent from \$23.6 billion in 1995. Net worth, or member and patron equity, was \$17.4 billion, up 4.6 percent from \$16.6 billion in 1995. The proportion of total assets financed by member and patron equity decreased from 41.3 percent to 40.8 percent.

Net worth of all marketing cooperatives totaled \$11.1 billion, up 3.4 percent from 1995. Marketing cooperatives accounted for 63.6 percent of farmer cooperatives' combined net worth, down from 64.3 percent in 1995. The net worth figure for farm supply cooperatives was 33.3 percent of the total, up from 32.6 percent.

For marketing cooperatives, the highest percentage of total assets represented by net worth shown in table 7 (45 percent) was for those primarily marketing cotton and cotton products. The lowest, 30.2

percent, was for cooperatives primarily marketing fruits and vegetables (figure 8). Cooperatives classified as farm marketing and farm supply had 37 percent and 48.8 percent, respectively, of their assets financed by net worth.

Of the \$42.6 billion in total assets, marketing cooperatives accounted for \$29.9 billion, up 6.9 percent from 1995. Cooperatives principally handling grains and oilseeds (excluding cottonseed) had total assets of \$9.4 billion in 1996 and \$8.8 billion in 1995, up 7.4 percent. Among marketing cooperatives, those with primarily grain also maintained the largest proportion of investments in other cooperatives in both 1996 (11.4 percent) and 1995 (10.8 percent). Dairy cooperatives had 9 percent of their assets invested in other cooperatives (table 8).

Assets of marketing cooperatives, excluding investments in other cooperatives, were \$28.1 billion, up 6 percent from 1995.

Farm supply cooperatives had total assets of \$11.8 billion, compared with \$11.5 billion in 1995, up 3.3 percent. Excluding intercooperative investments, assets amounted to \$10.3 billion in 1996, up 2.9 percent from 1995.

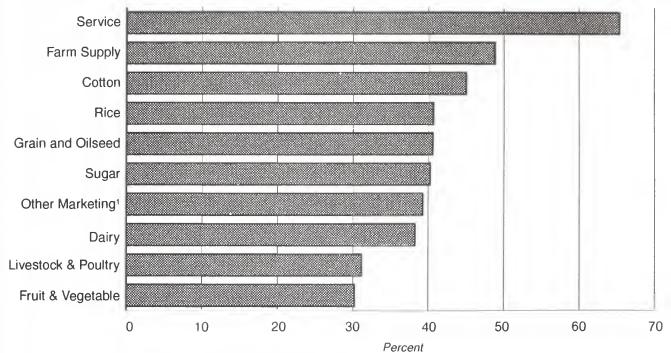
Principal products marketed and major function	Co-ops ²	Assets of own operations	Investments in other co-ops	Total assets	Investments in other co-ops as percent of total
	Number		Million dollars		Percent
Products marketed:					
Cotton	16	776.5	1.9	778.4	0.2
Dairy	237	5,170.1	509.1	5,679.3	9.0
Fruits & vegetables	267	5,204.9	70.3	5,275.2	1.3
Grains and oilseeds					
excluding cottonseed	1,066	8,370.6	1,075.1	9,445.8	11.4
_ivestock and poultry	105	3,969.3	79.4	4,048.6	2.0
Rice	19	577.6	.5	578.1	.1
Sugar	49	1,043.9	41.5	1,085.5	3.8
Other products 3	253	2,982.4	32.8	3,015.2	1.1
Total farm products	2,012	28,095.3	1,810.7	29,906.0	6.1
Total farm supplies	1,403	10,341.4	1,506.7	11,848.1	12.7
Total selected services	469	756.3	77.2	833.4	9.3
Combined total	3,884	39,193.0	3,394.5	42,587.5	8.0

¹ Totals may not add due to rounding.

² Many cooperatives have multi-product and multi-functional operations. Most are classified according to predominant commodity or function indicated by business volume.

³ Includes dry edible beans and peas, nuts, tobacco, wool, and miscellaneous products.

Figure 8— Percentage of Cooperatives' Assets Financed by Net Worth, by Cooperative Type, 1996



¹ Includes dry bean and pea, nut, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

Selected Financial Ratios

Financial ratios are often used to show the relationship between items in the financial and income statements of a business operation and help in analyzing a cooperative's economic and financial situation.

While financial ratios can indicate problem areas, they cannot solve problems. They do serve as a guideline for planning purposes and aid in formulating actions. Care must be taken in their use because both items used to calculate a ratio are subject to considerable variation. How a ratio is interpreted is largely subjective.

Several financial ratios were selected to give some indication of cooperative performance—return on assets, net worth-to-assets, return on sales, total sales-to-assets, and the current ratio.

The return on assets and return on sales ratios indicate profitability. The net worth-to-assets ratio provides some indication of a cooperative's ability to meet long-term financial obligations. The total sales-to-assets ratio (asset turnover ratio) shows how efficiently a cooperative is using its assets. The current ratio (current assets divided by current liabilities) measures a cooperative's ability to meet current obligations.

Table 9 lists the values of these ratios for the cooperatives reporting to USDA. Extreme values (high and low ratios) were excluded so that the ratios would be more representative of the cooperatives reporting. For the predominant types of cooperatives (dairy, fruit and vegetable, grain, and farm supply), ratios are also shown for cooperatives by selected asset category. These ratios offer cooperative leaders a general barometer when comparing their operations with others of the same type (and/or size).

The return on assets (net income/assets) varied considerably. Generally, cooperatives with assets in the \$2.5 million to \$25 million range had the highest return on assets. It was 8.9 percent for dairy, 6 percent for fruit and vegetable, 4.5 percent for grain, and 6.8 percent for farm supply cooperatives.

The return on sales (net income/total sales) ranged from a negative 0.2 percent for the smallest grain cooperatives to a high of 15.1 percent for cotton ginning cooperatives. However, it was between 1 percent and 3 percent for most type and size groups.

The sales-to-assets ratio ranged from 1 for service cooperatives to 11.9 for livestock cooperatives. Among dairy, fruit and vegetable, and grain cooperatives to some extent, the ratio tended to decrease as size of

Table 9— Selected financial ratios of cooperatives, 1996 1

Type of co-op and assets group (mil. dol.)	Return on assets ²	Net worth to assets ³	Return on sales 4	Sales to assets ⁴	Current ratio ⁵
		Percent		Nu	mber – – – –
Dry beans and peas	3.3	32.9	1.8	1.8	1.2
Cotton	11.6	45.4	3.2	3.6	1.4
Dairy	6.6	35.9	1.5	4.4	1.2
Less than \$0.5	6.1	54.1	.4	4.9	
\$0.599	3.5	64.4	.6	5.5	1.6
\$1.0 – 2.49	7.8	53.6	1.1	7.0	1.3
\$2.5 – 24.99	8.9	40.7	1.3	6.8	1.1
\$25.0 - 99.99	8.0	36.2	1.6	5.2	1.2
\$100.0 - 499.99	4.6	35.8	1.0	4.7	1.2
Fruit and vegetable	.5	29.1	.3	1.8	1.3
Less than \$0.5	2.8	52.0	.5	5.6	1.9
\$0.599	7.0	70.1	2.0	3.6	2.4
\$1.0 - 2.49	-4.0	61.4	03	4.7	2.1
\$2.5 – 24.99	6.0	40.3	1.8	3.3	1.0
\$25.0 - 99.99	.3	40.7	.2	1.9	1.2
\$100.0 - 499.99	1.7	27.6	.9	2.0	1.2
Grain and oilseed 6	3.8	38.7	1.0	4.0	1.2
Less than \$0.5.	-1.0	71.7	2	5.1	6.8
0.5 – .99	2.4	78.2	.5	5.4	2.8
\$1.0 - 2.49	3.8	66.2	1.0	4.0	1.6
\$2.5 – 24.99	4.5	47.9	1.3	3.5	1.3
\$25.0 - 99.99	4.2	31.6	1.6	2.7	1.1
Livestock	.9	28.5	.1	11.9	1.2
Nut	.3	37.3	.2	2.2	1.5
Poultry	4.1	33.6	1.6	2.6	1.2
Rice	4.2	42.0	2.0	2.1	1.3
Sugar	1.2	40.3	.9	1.4	1.3
Tobacco	3.6	61.7	2.3	1.6	_
Miscellaneous marketing	8.2	43.8	2.2	3.6	1.9
Fishery	2.1	47.0	_	2.4	
Farm supply	9.4	51.7	4.7	2.0	1.5
Less than \$0.5	1.5	75.3	.4	3.8	2.5
\$0.599	4.4	74.1	1.4	3.1	2.3
\$1.0 - 2.49	6.6	71.0	3.1	2.2	2.2
\$2.5 - 24.99	6.8	57.9	3.2	2.2	1.5
\$25.0 - 99.99	3.5	38.0	1.4	2.5	1.4
\$100.0 - 499.99	7.4	43.0	3.0	2.5	1.4
Service	9.5	67.2	9.0	1.0	1.8
Cotton gins	21.1	64.9	15.1	1.4	1.5

^{- =} Data not available.

Based on cooperatives reporting. Excludes strictly bargaining or pooling cooperatives. Ratios were calculated by summing the individual items and dividing. No attempt was made to include the same cooperatives in each group to calculate all five ratios. Extreme values not representative of the group were excluded.

² Calculated by dividing net income (before any income taxes are deducted) by total assets. In calculating a return on assets, some financial experts would include interest paid in net income. Interest paid was not included in net income.

³ Net worth, or member equity, is the value of the assets owned by members. The ratio was calculated by dividing total net worth by total assets.

⁴ Total sales includes service receipts and other income and patronage refunds received from other cooperatives, CoBank and Bank for Cooperatives. The return on sales was found by dividing net income by total sales.

⁵ The current ratio was derived by dividing current assets by current liabilities. These data were taken from annual reports where provided. In some cases, data were not available.

⁶ Excludes cottonseed.

cooperative increased. Generally, this reflects the large investment in processing or manufacturing equipment typical of the larger dairy and fruit and vegetable cooperatives. The sales-to-assets ratios for farm supply cooperatives did not vary much with size of cooperative. Most farm supply cooperatives are not as involved in manufacturing or processing as are the dairy and fruit and vegetable cooperatives.

The generally high sales-to-assets ratios for the smaller cooperatives as well as for some types of cooperatives is due to their involvement in bargaining or other marketing functions not requiring major investments in plant and equipment.

The current ratio (current assets/current liabilities) ranged from 1 for fruit and vegetable cooperatives with assets of \$2.5 million to \$25 million to 6.8 for the smallest grain cooperatives. Current ratios tended to be higher for the medium- and smaller-sized cooperatives than for the larger ones because larger cooperatives generally finance a greater proportion of their assets with borrowed capital.

Fertilizer Operations of Local Cooperatives

Additional information was requested of local cooperatives with estimated fertilizer sales in excess of \$0.5 million. Data were gathered on fertilizer sales, fertilizer sources, competition, type of competition, services provided, and how they paid for services. The fertilizer operations of 497 local farm supply and marketing cooperatives were analyzed. The information was combined with fertilizer sales during the past 11 years, with comparisons by region, growth in sales, services offered, and comparisons to a 1985 agronomy study.

In 1996, average sales figures for the 497 local cooperatives were fertilizer, \$2.2 million; farm supplies, \$8.6 million; and farm products marketed, \$9.9 million. Findings from the survey of local cooperative fertilizer operations 5 revealed the following:

- Fertilizer sales included 54 percent dry, mixtures and lime, 27 percent anhydrous ammonia, and 19 percent liquid.
- Most fertilizer was purchased from regional cooperatives—88 percent of anhydrous ammonia and dry, mixtures and lime and nearly 83 percent of liquid.
- Investor-owned fertilizer suppliers were the number one competitor. Other cooperatives were a close
- ⁵ For a more detailed discussion of the study on the fertilizer operations of local cooperatives, see Eversull, E. Eldon, Fertilizer Operations of Local Farm Supply and Marketing Cooperatives, RBS, USDA, Wash., DC, Forthcoming.

- second. Most often, price was the major competitive factor.
- More than 90 percent of the cooperatives provided fertilizer applications, 88 percent soil testing, 74 percent fertilizer specialists, and 62 percent fertilizer records. Services offered varied by cooperative size, with larger local cooperatives offering services more often. Growth in fertilizer sales for the 11-year study period did not have a large impact on the frequency of services offered. However, services offered varied greatly by region. Cooperatives in the Corn Belt and Lake States offered services more frequently.
- Thirty-one percent of the local cooperatives offered precision agriculture—global positioning system and global information system (GPS/GIS)—in applying fertilizer. This included computer record keeping for 26 percent of the fertilizer volume and 24 percent for application equipment. Fourteen percent of the local cooperatives sold, rented, or leased the new GPS/GIS units to patrons.

III—Cooperative Trends, 1987–96

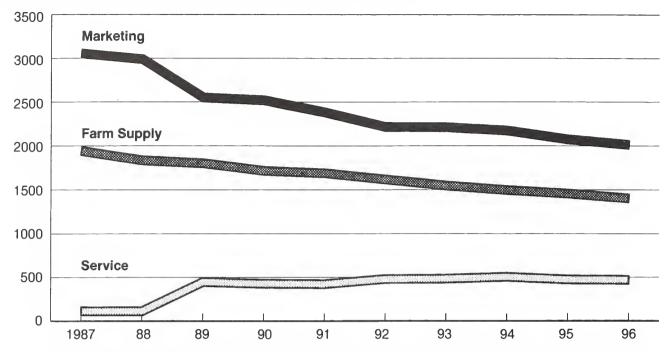
Although the number of cooperatives decreased by 1,225 net during the past decade, business volume of the survivors has increased. Cooperatives continue to adjust to the changing economic environment through dissolution, mergers or consolidations, acquisitions, and sale of assets. In some cases, farmers have organized new-generation cooperatives as a way of becoming more involved in value-added activities. In 1987, the net business volume of 5,109 cooperatives totaled \$60.3 billion. In 1996, net business volume generated by 3,884 cooperatives hit a record \$106.2 billion (appendix figure 1).

Number of Cooperatives

The total number of marketing, farm supply, and related-service cooperatives declined from 5,109 in 1987 to 3,884 in 1996 (table 10 and figure 9). Marketing cooperatives declined from 3,054 to 2,012 and farm supply cooperatives from 1,941 to 1,403. Number of service cooperatives, however, increased from 114 to 469, due primarily to reclassifying cotton ginning cooperatives, livestock shipping associations, and rice driers from marketing to service.

From 1987 through 1996, 1,947 were removed from CS' list of farmer cooperatives, an average loss of nearly 195 per year. Of those, 39.7 percent were dissolved, 28.2 percent resulted from merger or consolidation, 16.4 percent were acquired by other cooperatives

Figure 9— Farmer Cooperatives in the United States, 1987-96



Cotton ginning cooperatives, livestock shipping associations, and rice driers reclassified from marketing to service cooperatives in 1989, 1992, and 1993, respectively.

Table 10— N t	umber of fa	rmer cooper	atives, 19	87 -9 6
Period ¹	Marketing	Farm supply	Service	Total
		Numbe	er	
1987	3,054	1,941	114	5,109
1988	2,988	1,836	113	4,937
1989	2,550	1,803	446	4,799
1990	2,519	1,717	427	4,663
1991	2,384	1,689	421	4,494
1992	2,218	1,618	479	4,315
1993	2,214	1,547	483	4,244
1994	2,173	1,496	505	4,174
1995	2,074	1,458	474	4,006
1996	2,012	1,403	469	3,884

¹ For years before 1987, see Cooperative Historical Statistics, CIR 1, Section 26, USDA, ACS, Washington, DC, Revised January 1993. Cotton ginning cooperatives, livestock shipping associations, and rice drying cooperatives were reclassified from marketing to service in 1989, 1992, and 1993, respectively.

or investor-owned firms, and the remaining 15.7 percent were removed for miscellaneous reasons (figure 10).

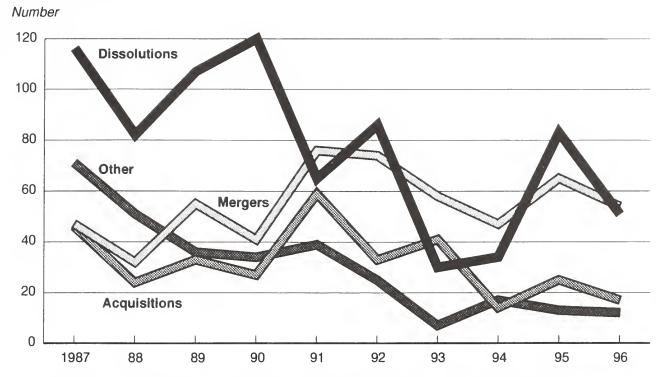
Meanwhile, new cooperatives are being formed. From 1987 through 1996, 464 cooperatives, or an average of more than 46 cooperatives per year, were added to CS' list.

Memberships

Memberships in farmer cooperatives dropped from 4.4 million in 1987 to nearly 3.7 million in 1996 (table 11 and figure 11) reflecting, in part, declining farm and farmer numbers in the United States. Many farmers are members of more than one cooperative and each membership is counted. Total membership contains duplication that cannot be eliminated with current reporting methods. Consequently, number of memberships exceeds the number of farmers.

Member classification depends on the type of cooperative they use and may not be related to the member's products marketed or supplies purchased. For example, a member may use a cooperative to market only one of the farm products handled by the cooperative, or a member may use a cooperative classified in the marketing group to purchase production supplies. A member's business with the cooperative, therefore, may not be in the group that represents the

Figure 10— Cooperatives Removed from CS' List, 1987-96



Based on a list of all U.S. farmer cooperatives maintained by Cooperative Services. Mergers also include consolidations. Other includes cooperatives dropped due to inactivity and unknown and miscellaneous reasons.

cooperative's major business volume (the criterion for classifying cooperatives in this report). The member, however, will be included arbitrarily in that classification.

Employees

Farmer cooperatives had 174,795 employees in 1996, an average of 45 persons per association on a full-time basis—down 0.3 percent from 175,399 in 1995 (table 12). The 2,012 marketing cooperatives employed 123,525 persons, down 0.5 percent from 1995. Livestock and poultry cooperatives had the most full-time employees, 28,453—down 0.6 percent. Dairy cooperatives ranked second with 27,621, a 7.4-percent decrease. Together, these cooperatives accounted for 45.4 percent of the full-time employees of all marketing cooperatives. In 1986, one of the few years where data were collected on full-time employees, 5,369 cooperatives had 166,560 full-time employees.

The 1,403 farm supply cooperatives employed 45,566 persons on a full-time basis, up only 0.6 percent from the 45,302 reported in 1995. These cooperatives had an average of 32 full-time employees in 1996.

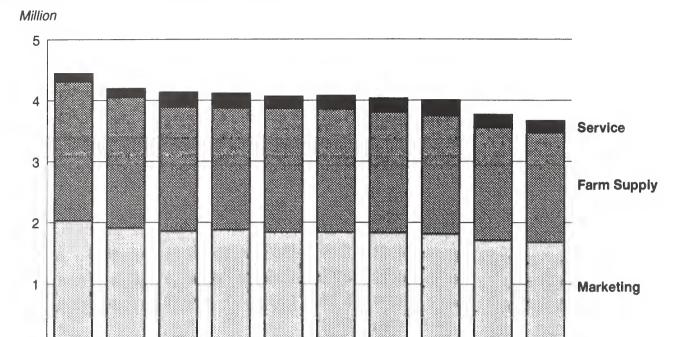
Full-time employees of the 469 related-service

Table 11— Memberships in marketing, farm supply, and service cooperatives, 1987–96

Period ¹	Marketing	Farm supply	Service	Total
		Numb	er	
1987	2,026	2,282	132	4,440
1988	1,912	2,142	141	4,195
1989	1,856	2,035	243	4,134
1990	1,882	2,006	232	4,119
1991	1,842	2,025	191	4,059
1992	1,839	2,020	212	4,072
1993	1,830	1,977	216	4,023
1994	1,805	1,936	245	3,986
1995	1,712	1,846	210	3,767
1996	1,682	1,795	187	3,664

¹ For years before 1987, see Cooperative Historical Statistics, CIR 1, Section 26, USDA, ACS, Washington, DC, Revised January 1993. Cotton ginning cooperatives, livestock shipping associations, and rice drying cooperatives were reclassified from marketing to service in 1989, 1992, and 1993, respectively.

Figure 11— Total Cooperative Memberships by Function, 1987-96



92

93

94

95

96

Table 12— Number of farmer cooperatives and full-time employees, 1994-1996 1 Cooperatives Full-time Employees Commodity 1994 1995 1996 1994 1995² 1996 Number Cotton 17 16 16 2,105 2,136 1,787 Dairy 31,261 29,828 247 241 237 27,621 Fruits & vegetables 267 21,201 24,944 288 281 26,456 Grains & oilseeds 24,759 25,981 1,159 1,090 1,066 24,811 28,453 Livestock, & poultry 117 112 105 26,408 28,635 Rice 21 19 19 2,796 2,785 2,636 Sugar 52 51 49 3,264 3,422 3,482 7,590 Other products 5,795 7,109 272 264 253 123,525 Marketing 2,173 2,074 2,012 117,589 124,151 Farm supply 1,496 1,458 1,403 50,524 45,302 45,566 Service 6,906 5,704 505 474 469 5,946 174,795 4,174 175,019 175,399 Total 4,006 3,884

0

1987

88

89

90

91

¹ Totals may not add to rounding.

² Data for 1995 were revised.

cooperatives dropped from 5,946 in 1995 to 5,704 in 1996, a 4.1-percent decrease.

Business Volume

Net cooperative business volume, unadjusted for changes in the price level, increased from \$60.3 billion in 1987 to \$106.2 billion in 1996—up 76.1 percent (table 13). Adjusted for price change,6 net cooperative business totaled \$83.1 billion in 1996—up 37.8 percent (figure 12). In 1996, the difference between actual and real net business volume totaled \$23.1 billion.

Four major commodity groups—dairy; grains and oilseeds, excluding cottonseed; fruits and vegetables; and livestock—increased from 81.3 percent of all marketing sales in 1987 to 84 percent in 1996. Grains and oilseeds (excluding cottonseed) increased from 22.8 percent to 34.8 percent. Dairy and fruits and vegetables, as a percentage of total cooperative business volume, decreased from 37.6 percent in 1987 to 30.4 percent in 1996.

Trends in cooperatives' sales of these major commodity groups for 1987-96 are shown in figure 13. Grains and oilseeds sales show the largest variation during this period and a significant increase in grain sales in 1996, mainly due to higher prices.

In the farm supply group, petroleum, feed, and fertilizer were especially important. They accounted for 69.3 percent of cooperatives' total farm supply sales in 1987 and 71.4 percent in 1996.

Beginning with 1987, cooperative sales of petroleum, feed, fertilizer, and crop protectants have been increasing (figure 14). Fertilizer and crop protectants sales were at their lowest points in 1987. All rebounded except seed sales, which remained fairly steady.

Net marketing of farm products totaled \$44.2 billion in 1987 and increased every year except in 1991. In 1996, net business volume of farm products marketed reached a record \$79.4 billion (table 14). Aggregate farm supply sales were \$14.3 billion in 1987 and \$23.7 billion in 1996—1987 showed the lowest farm supply sales of the period. Service receipts increased from \$1.9 billion in 1987 to \$3.1 billion in 1996. Beginning in 1990, service receipts were expanded to include other income and revenue.

Gross business volume was \$74.7 billion in 1987 and reached \$92.7 billion in 1990 before dropping to \$90.8 billion in 1991. From 1991, gross business volume increased every year to a record \$128.1 billion in 1996. Farm product marketings ranged from 67.3 percent to 70.5 percent of cooperatives' total gross business volume during 1987-96. Net business volume of farm

Table 13— Cooperatives' net business volume, 1987 and 1996 1

		Net Volume	
Commodity or function	1985	1994	Change
	Million	n dollars – –	Percent
Products marketed:			
Beans and peas			
(dry edible)	127.7	179.0	40.2
Cotton	1,542.6	2,658.6	72.3
Dairy	16,548.3	22,934.5	38.6
Fruits and vegetables	6,113.6	9,392.0	53.6
Grains and oilseeds 2	10,058.6	27,656.9	175.0
Livestock	3,158.4	6,725.2	112.9
Nuts	941.0	951.6	1.1
Poultry	1,146.2	1,754.1	53.0
Rice	847.7	899.8	6.1
Sugar	1,714.1	1,933.3	12.8
Tobacco	607.7	1,412.0	132.4
Wool and mohair	22.6	7.9	-65.0
Other products	1,327.1	³ 2,923.6	120.3
Total farm products	44,155.8	79,428.6	79.9
Supplies sold:			
Crop protectants	1,291.2	2,829.2	119.1
Feed	2,986.8	5,388.0	80.4
Fertilizer	2,731.8	5,200.6	90.4
Petroleum	4,175.1	6,295.2	50.8
Seed	576.6	658.5	14.2
Other supplies	2,509.4	3,281.3	30.8
Total farm supplies	14,270.8	23,652.6	65.7
Services provided:			
Trucking, cotton ginning, storage, grinding, locker			
plants, misc	1,891.2	3,100.4	63.9
Total business	60,317.7	106,181.6	76.0

Excludes intercooperative business volume. Totals may not add due to rounding.

Marketing sales was deflated by the index of producer prices received for "farm products, processed foods and feeds" (1987 = 100). Supply sales and service receipts and other income were deflated by the index of prices paid by farmers for "production items" excluding interest, taxes, and wages (1987 = 100).

² Excludes cottonseed. Cottonseed sales were included with cotton. Cottonseed meal and oil sales were included with feed and other products, respectively.

³ Includes value of processed oilseeds.

Figure 12—Cooperatives' Net Business Volume, 1987-96



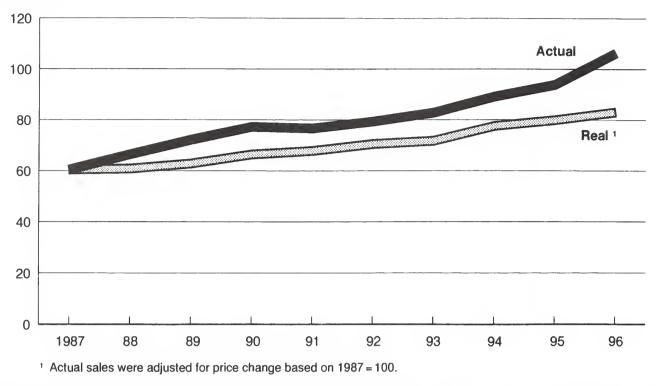


Figure 13— Cooperatives' Net Sales of Selected Commodities, 1987-96



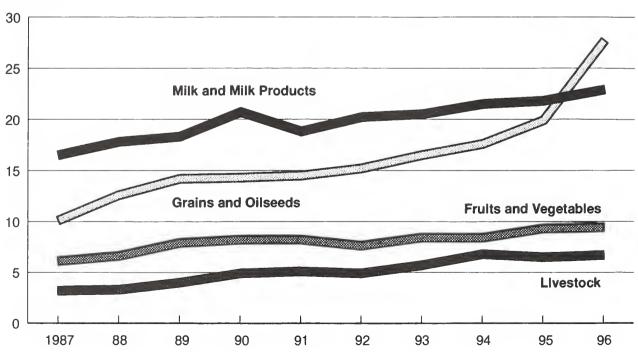
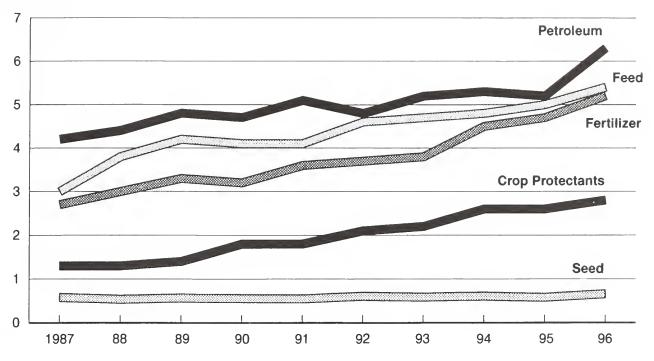


Figure 14— Cooperatives' Net Sales of Selected Farm Supplies, 1987-96

Billion dollars



products marketed ranged from 73.2 percent to 74.8 percent of cooperatives' total net business volume.

Net Income

Although net income has fluctuated since 1987, the general trend has been an increase. In 1987, net income was \$1,486 million, rose to \$1.85 billion in 1989, dropped to \$1.36 billion in 1993, reached a record \$2.36 billion in 1995, and dropped to \$2.25 billion in 1996 (table 15 and figure 15).

Net income from other cooperatives and from own operations varied over time, but reflected better recent economic times in agriculture compared with the mid-1980s. In 1996, refunds from other cooperatives totaled \$711.9 million, or 31.7 percent of total net income. From 1987 to 1995, the percentage of total net income received from other cooperatives ranged from 4.2 percent in 1987 to 24.7 percent in 1992. The significant increase in net income from patronage refunds received from other cooperatives indicates the importance of cooperatives working together.

Balance Sheet

In 1987, farmer cooperatives financed 46.4 percent of their assets through member and patron

equity, or net worth. From 1988 through 1993, member and patron equity used to finance assets ranged from 43.8 percent to 44.9 percent. In 1994, it dropped to 43.4 percent, continuing its downward trend to 40.8 percent in 1996 (table 16 and figure 16).

This drop in assets financed by net worth should be of some concern to cooperative leaders. If cooperatives continue to finance their assets with larger proportions of debt, and interest rates increase as happened in the late 1970s and early 1980s, some cooperatives could find themselves in a financial squeeze.

Investments in other cooperatives, as a percentage of total assets, increased in 1996 for the first time since 1993. They had dropped to 8.7 percent in 1989 before increasing to 9.6 percent in 1990. In both 1994 and 1995, they were only 7.4 percent, before increasing to 8 percent in 1996.

IV—Other Service Cooperatives

Other types of service cooperatives were operating in 1996 besides those directly related to marketing and purchasing.

Table 14— Cooperatives' gross and net business volumes, 1987-96 1

	Gross volume			Net volume				
Period ²	Farm products	Farm supplies	Services ³	Total	Farm products	Farm supplies	Services ³	Total
				Billio	n dollars			
1987	50.3	22.5	1.9	74.7	44.2	14.3	1.9	60.3
1988	56.2	24.0	1.9	82.1	49.1	15.4	1.9	66.4
1989	60.3	25.8	2.0	88.1	53.2	16.9	2.0	72.1
1990	64.1	26.3	2.3	92.7	57.8	17.1	2.3	77.3
1991	61.4	26.8	2.5	90.8	56.2	17.9	2.5	76.6
1992	63.8	27.0	2.6	93.4	58.2	18.5	2.6	79.3
1993	66.8	28.2	2.7	97.7	60.9	19.2	2.7	82.9
1994	72.1	30.4	3.0	105.5	65.5	20.8	3.0	89.3
1995	77.9	31.0	3.3	112.2	69.3	21.2	3.3	93.8
1996	90.3	34.7	3.1	128.1	79.4	23.7	3.1	106.2
				Pe	ercent			
1987	67.3	30.2	2.5	100	73.2	23.7	3.1	100
1988	68.4	29.2	2.4	100	73.9	23.2	2.9	100
1989	68.4	29.3	2.3	100	73.8	23.4	2.8	100
1990	69.1	28.4	2.5	100	74.9	22.1	3.0	100
1991	67.7	29.5	2.8	100	73.3	23.4	3.3	100
1992	68.3	28.9	2.8	100	73.4	23.4	3.2	100
1993	68.4	28.8	2.8	100	73.5	23.2	3.3	100
1994	68.4	28.8	2.8	100	73.4	23.3	3.3	100
1995	69.5	27.6	2.9	100	73.9	22.6	3.5	100
1996	70.5	27.1	2.4	100	74.8	22.3	2.9	100

¹ Gross includes and net excludes intercooperative business.

Table 15— Cooperatives' net income, 1987-961

	From own	From other	
Year	operations	cooperatives 2	Total
		Million dollars	
1987	1,423	63	1,486
1988	1,532	148	1,680
1989	1,543	308	1,851
1990	1,110	330	1,440
1991	1,189	381	1,570
1992	1,084	356	1,440
1993	1,041	318	1,358
1994	1,628	335	1,963
1995³	1,820	544	2,363
1996	1,536	712	2,248

¹ Totals may not add due to rounding. Excludes income from cooperative pooling operations.

Farm Credit System

The Farm Credit System (FCS) is a nationwide network of financial cooperatives that lend to agriculture and rural America. FCS provides credit and related services to farmers, ranchers, producers and harvesters of aquatic products, rural homeowners, certain farm-related businesses, agricultural and aquatic cooperatives, rural utilities, and to certain foreign or domestic entities in connection with international transactions.

On January 1, 1997, the FCS represented 60 Federal Land Bank Associations (FLBAs); 31 Federal Land Credit Associations (FLCAs); 65 Production Credit Associations (PCAs); 1 Agricultural Credit Bank (ACB), (CoBank, ACB); 61 Agricultural Credit Associations (ACAs); 6 Farm Credit Banks (FCBs); and 1 Bank for Cooperatives (BC) (table 17).

On December 31, 1996, the combined assets of the FCS totaled \$74.9 billion—up 4.9 percent from \$71.4

² For years before 1987, see *Cooperative Historical Statistics*, CIR 1, Section 26, USDA, ACS, Washington, DC, Revised January 1993. Data for prior years are not entirely comparable due to revisions in statistical procedures.

³ Services related to marketing or supply purchasing, but not included in the volumes reported for these activities. Beginning with 1990, other income and revenue were included with service receipts.

Dividends and patronage refunds received from other marketing, farm supply, and related–service cooperatives.

³ Revised.

Figure 15— Cooperatives' Net Income, 1987-96



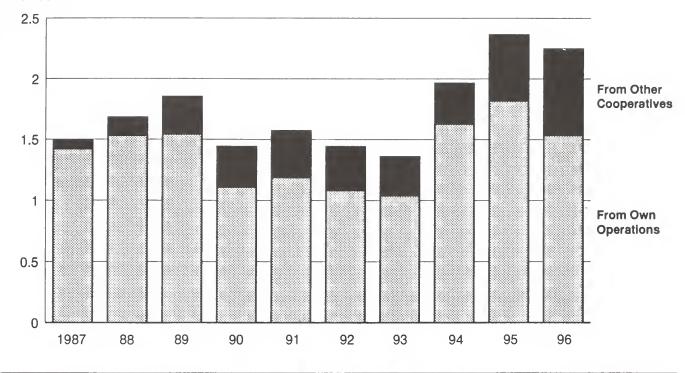


Figure 16— Cooperatives' Net Worth and Total Liabilities, 1987-96



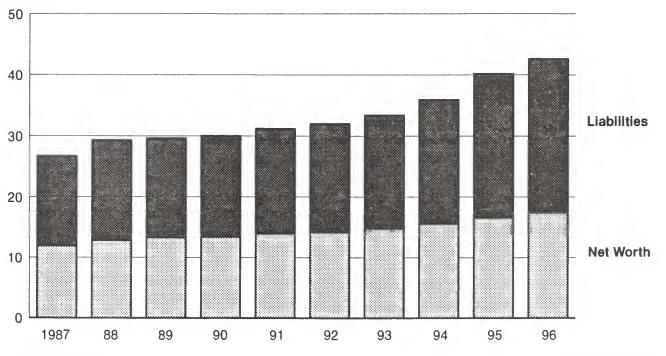


Table 16— Combined balance sheet data for farmer cooperatives, 1987-961

Year	Assets from own operations	Investments in other co-ops	Total assets	Total liabilities	Net worth	
1 cai	operations	co-ops	assets	naomites	WORTH	
			Million dollars			
1987	24,823	2,820	27,643	14,819	12,824	
1988	26,524	2,762	29,286	16,461	12,825	
1989	27,078	2,571	29,649	16,337	13,313	
1990	27,155	2,869	30,024	16,575	13,449	
1991	28,766	2,501	31,268	17,227	14,040	
1992	29,572	2,422	31,994	17,780	14,213	
1993	30,844	2,602	33,446	18,634	14,812	
1993	33,304	2,656	35,960	20,339		
1994	37,314	2,960	40,274	23,643	15,621	
	,	•	•	·	16,631	
1996	39,193	3,395	42,588	25,195	17,392	
			Percent of total assets	•		
1987	89.8	10.2	100.0	53.6	46.4	
1988	90.6	9.4	100.0	56.2	43.8	
1989	91.3	8.7	100.0	55.1	44.9	
1990	90.4	9.6	100.0	55.2	44.8	
1991	92.0	8.0	100.0	55.1	44.9	
1992	92.4	7.6	100.0	55.6	44.4	
1993	92.2	7.8	100.0	55.7	44.3	
1994	92.6	7.4	100.0	56.6	43.4	
1995	92.6	7.4	100.0	58.7	41.3	
1996	92.0	8.0	100.0	59.2	40.8	

¹ Totals may not add due to rounding.

Table 17— Farm Credit Association structure, January 1, 1997	Table 17— Farm Credit	Association	structure,	January	1,	1997	1
--	-----------------------	-------------	------------	---------	----	------	---

District or bank affiliation	FLBA	FLCAs	PCA	ACB	ACA	FÇB	ВС
			Nu	mber			-
CoBank, ACB ²	_	_	_	1	5	_	_
AgFirst FCB	_	_	1	_	39	1	_
AgriBank, FCB	_	19	19		11	1	_
FCB of Wichita	22	_	18	_	_	1	_
FCB of Texas	38	_	16	_	_	1	_
Western FCB	_	11	10	_	5	1	_
St. Paul BC ³	_	_	_	_	_	_	1
AgAmerica, FCB	_	1	1	_	1	1	_
	_			_	_	_	
Total	60	31	65	1	61	6	1

⁼ No bank affiliation.

Source: Farm Credit Administration, 1996 Annual Report on the Financial Condition and Performance of the Farm Credit System, McLean, VA, p. 26.

¹ FLBA = Federal Land Bank Association; PCA = Production Credit Association; ACA = Agricultural Credit Association; FLCA = Federal Land Credit Association; ACB = Agricultural Credit Bank; FCB = Farm Credit Bank; and BC= Bank for Cooperatives

² CoBank, ACB serves cooperatives nationwide and ACAs in the former Springfield District.

³ The St. Paul BC serves cooperatives nationwide.

billion in 1995 (table 18). Net worth totaled \$10.7 billion, up 8.8 percent, and net income was \$1.2 billion, up 3.1 percent from 1995.

The FLBAs originate and service long-term loans made by FCBs. Loan proceeds are used to purchase agricultural real estate and rural homes and refinance agricultural real estate and rural home mortgages.

Of the 31 FLCAs operating on January 1, 1997, 19 were in AgriBank, 11 in Western and one in AgAmerica districts. FLCAs were authorized by the Agricultural Credit Act of 1987. FLCAs are former FLBAs that were given direct lending authority by FCBs.

PCAs provide farmers and ranchers short- and intermediate-term loans for various purposes, such as operating expenses, farm equipment, livestock, farm buildings, and other capital improvements. Four of the six FCB districts contained 63 of the 65 PCAs.

ACAs resulted from the merger of FLBAs or FLCAs with PCAs. ACAs offer both long- and short-term loans. Of the 61 ACAs operating on January 1, 1997, 39 of them were in AgFirst territory and 11 in the AgriBank district.

The FCBs provide loan funds and support services to FLBAs, ACAs, FLCAs, and PCAs within their districts. Combined assets of six FCBs, one ACB, and one BC totaled \$68.5 billion in 1997, up from \$65.8 billion in 1995 (table 19). Net worth in 1996 was \$5.8 billion and net loans totaled nearly \$56.6 billion. Net income was \$622 million in 1996, a record for the past 5 years.

St. Paul Bank for Cooperatives, the sole BC, is based in Minnesota. It offers a complete line of credit and related financial services to agricultural coopera-

Table 18— Farm Credit System combined assets, net worth, and net income, 1992–96 ¹

Year	Assets	Net worth	Net income
		Million dollars	
1992	63,197	7,214	986
1993	64,798	8,312	1,217
1994	66,376	8,980	1,005
1995	71,438	9,863	1,165
1996	74,917	10,729	1,201

¹ As of December 31. Data for 1992-93 were taken from Farm Credit System, Annual Information Statements, Federal Farm Credit Banks, Funding Corporation, Jersey City, NJ. Data for 1994-96 were taken from *Farm Credit System, Annual Information Statement*–1996, Federal Farm Credit Banks, Funding Corporation, Jersey City, NJ, February 27, 1997, p. F-3.

tives, rural utilities, and other eligible customers nationwide.

CoBank, ACB, provides short-, intermediate-, and long-term credit to agricultural cooperatives, rural utility systems, and other rural businesses nationwide. It also provides credit to the Farm Credit Associations serving agricultural producers in the Northeast. CoBank, ACB, is owned by about 2,300 stockholders, consisting of U.S. farmer cooperatives, rural utilities, ACAs, and other businesses serving rural America. CoBank is also authorized to finance U.S. agricultural exports and to provide international banking services for farmer cooperatives.

Rural Telephone Cooperatives

On December 31, 1996, 236 rural telephone cooperatives were borrowing from the Rural Electrification Administration (REA), with revenues of \$1,201 million and 1,457,000 subscriber members. Iowa had the most cooperatives, 32, or 13.6 percent of the total. South Carolina had more subscriber memberships (11.1 percent) than any other State (table 20). Texas led all States in revenue, with \$143 million, or 11.9 percent of the total.

Rural Electric Cooperatives

The Nation's 804 rural electric cooperatives reported 11.1 million consumer members and revenue of \$24.4 billion (table 21). Texas led all States, with 55 associations, or 6.8 percent of the total, while Georgia led with the most consumer members (9.1 percent) and revenue (9.9 percent).

Table 19— Farm Credit System banks' and associations' combined assets, net worth, net loans, and net income, 1992-96 ¹

Year	Assets	Net worth	Net loans	Net income
		Million	dollars	
1992	59,633	4,937	49,440	506
1993	60,382	5,231	50,327	590
1994	61,174	5,254	50,763	452
1995	65,754	5,629	54,525	555
1996	68,549	5,798	56,571	622

As of December 31. Includes six Farm Credit Banks, one Agricultural Credit Bank, and one Bank for Cooperatives.

Source: Farm Credit Administration, Report on the Financial Condition and Performance of the Farm Credit System, McLean, VA, pp. 41-42.

Table 20— Number, participation, and level of activity of rural telephone cooperatives by State, December 31, 1996 ¹

State	Cooperatives	Members (subscribers)	Revenue	State	Cooperatives	Members (subscribers)	Revenue
-	Number	1,000	Mil. dol.		Number	1,000	Mil. dol.
Alabama	3	26	18	New Hampshire	_	_	_
Alaska	7	59	66	New Jersey	_	_	_
Arizona	1	4	6	New Mexico	5	28	49
Arkan sa s	2	8	8	New York	-	_	_
California	-	-	-	North Carolina	9	138	75
Colorado	5	9	9	North Dakota	10	59	53
Delaware	_	_	_	Ohio	6	4	3
Florida	_	_	_	Oklahoma	1	9	14
Georgia	4	32	21	Oregon	9	46	35
daho	2	10	7	Pennsylvania	_	-	-
Illinois	7	23	22	South Carolina	6	161	99
Indiana	8	34	25	South Dakota	13	50	45
lowa	32	63	52	Tennessee	7	136	82
Kansas	10	56	71	Texas	20	126	143
Kentucky	8	97	64	Utah	3	19	17
Louisiana	_	_	_	Vermont	_	_	_
Maine	_	_	_	Virginia	5	19	12
Maryland	_	_	_	Washington	_	_	_
Michigan	_	-	_	West Virginia	2	4	4
Minnesota	19	76	57	Wisconsin	11	44	30
Mississippi	_	-	_	Wyoming	1	1	2
Missouri	8	49	43				
Montana	7	56	64	United States	236	1,457	1,201
Nebraska	5	10	7				
Nevada	_	-	_				

^{- =} None reported in the State.

Rural Credit Unions

The 690 rural credit unions reported 4.2 million members and savings of \$16.4 billion. Wisconsin led all States in number of associations, with 69 (10 percent), while California had the most members, with 990,000 (23.3 percent). California also led all States in credit union savings, with \$4.5 billion, or 27.5 percent of the \$16.4 billion (table 22).

Dairy Herd Improvement Associations

Dairy Herd Improvement Associations (DHIA) had 41,277 members (table 23). The DHIAs tested 4.5 million cows. Wisconsin (10,628), Pennsylvania (5,219), Minnesota (4,828), and New York (3,351), combined, accounted for 58.2 percent of total members. About

845,600, or 18.7 percent, of the cows tested were in California.

¹ Source: Rural Utilities Service, USDA. Totals may not add due to rounding.

Table 21— Number, participation, and level of activity of rural electric cooperatives by State, December 31, 1996 ¹

State	Cooperatives	Members (subscribers)	Revenue	State	Cooperatives	Members (subscribers)	Revenue
	Number	1,000	Mil. dol.		Number	1,000	Mil. dol.
Alabama	22	422	770	New Hampshire	1	69	96
Alaska	11	71	206	New Jersey	1	10	14
Arizona	6	113	374	New Mexico	17	167	374
Arkansas	19	385	1,008	New York	4	15	13
California	3	14	20	North Carolina	26	644	1,518
Colorado	21	306	842	North Dakota	26	113	866
Delaware	1	53	60	Ohio	24	275	530
Florida	14	559	1,259	Oklahoma	24	310	553
Georgia	38	1,006	2,417	Oregon	13	98	146
ldaho	7	46	66	Pennsylvania	13	188	344
Illinois	21	167	296	South Carolina	22	519	1,171
Indiana	31	307	620	South Dakota	32	121	223
lowa	43	178	435	Tennessee	21	750	1,013
Kansas	33	152	408	Texas	55	688	1,407
Kentucky	28	614	1,573	Utah	1	7	8
Louisiana	12	284	796	Vermont	3	9	8
Maine	3	14	13	Virginia	12	335	508
Maryland	2	146	252	Washington	7	32	47
Michigan	13	204	251	West Virginia	1	5	5
Minnesota	48	411	839	Wisconsin	21	145	323
Mississippi	19	444	923	Wyoming	12	60	127
Missouri	45	515	1,416				
Montana	23	93	142	United States	804	11,084	24,441
Nebraska	3	8	109				
Nevada	2	11	52				

¹ Source: Rural Utilities Service, USDA. Totals may not add due to rounding.

Table 22— Number, participation, and level of activity of rural credit unions by State, December 31, 1996 ¹

State	Cooperatives	Members	Savings	State	Cooperatives	Members	Savings
	Number	1,000	Mil. dol.		Number	1,000	Mil. dol.
Alabama	11	21	70	Montana	12	55	187
Alaska	1	19	78	Nebraska	16	13	37
Arizona	4	15	36	Nevada	6	44	251
Arkansas	3	7	20	New Hampshire	2	1	1
California	59	990	4,509	New Jersey	6	12	20
Colorado	14	20	69	New Mexico	3	35	133
Connecticut	1	1	1	New York	29	164	635
Delaware	1	2	8	North Carolina	14	32	68
Florida	16	92	336	North Dakota	32	99	500
Georgia	12	31	77	Ohio	12	39	60
Hawaii	17	97	537	Oklahoma	5	8	34
daho	9	14	33	Oregon	10	75	262
llinois	13	60	208	Pennsylvania	21	31	68
ndiana	17	65	455	Rhode Island	3	55	446
owa	7	6	16	South Carolina	3	8	44
Kansas	18	75	214	South Dakota	8	10	24
Kentucky	7	31	73	Tennessee	8	14	34
_ouisiana	9	15	35	Texas	34	111	345
Maine	10	23	82	Utah	9	14	40
Maryland	5	52	221	Vermont	4	17	43
Massachusetts	6	10	21	Virginia	6	43	134
Michigan	27	410	1,068	Washington	15	150	617
Minnesota	36	195	699	West Virginia	3	4	9
Mississippi	4	11	26	Wisconsin	69	573	1,915
Missouri	7	18	47	Wyoming	2	2	4
				United States ²	690	4,240	16,383

¹ Source: Credit Union National Association, Inc. (Includes federally chartered and State-chartered credit unions.) Totals may not add due to rounding.

² Includes Puerto Rico with 44 cooperatives, 352 members, and savings of \$1,533 million.

Table 23— Number, participation, and level of activity of dairy herd improvement associations by State, December 31, 1996 ¹

State	Members (herds)	Cows tested	State	Members (herds)	Cows tested
	Number	1,000		Number	1,000
Alabama	86	14.4	Montana	74	8.6
Alaska	2	(2)	Nebraska	352	34.2
Arizona	61	59.7	Nevada	27	9.1
Arkansas	114	10.8	New Hampshire	132	11.3
California	1,256	845.6	New Jersey	117	9.5
Colorado	112	41.0	New Mexico	54	56.5
Connecticut	141	16.0	New York	3,351	329.6
Delaware	33	4.4	North Carolina	305	50.8
Florida	126	65.5	North Dakota	125	10.2
Georgia	265	60.0	Ohio	1,701	123.0
Hawaii	6	2.5	Oklahoma	191	21.6
ldaho	316	74.8	Oregon	293	51.3
Ilinois	936	68.6	Pennsylvania	5,219	336.8
ndiana	815	64.8	Rhode Island	6	.4
owa	1,816	121.3	South Carolina	111	21.1
Kansas	440	39.3	South Dakota	422	33.7
Kentucky	367	31.0	Tennessee	352	42.5
_ouisiana	200	25.6	Texas	583	188.8
Maine	190	16.3	Utah	305	52.0
Maryland	529	44.1	Vermont	639	58.7
Massachusetts	151	12.6	Virginia	612	77.1
Michigan	1,445	148.3	Washington	398	93.8
Minnesota	4,828	320.2	West Virginia	89	9.2
Mississippi	113	18.5	Wisconsin	10,628	685.7
Missouri	655	55.3	Wyoming	11	1.4
			United States 3	41,277	4,516.7

¹ Source: Agricultural Research Service, USDA. Totals may not add due to rounding.

² Fewer than 500.

³ Includes Puerto Rico and the Virgin Islands with 177 members and 38,772 cows tested.

Appendix Table 1— Number ¹ of co-ops and memberships ² by major business activity and State,1995 ³

	· · · · · · · · · · · · · · · · · · ·				Membership
BEANS AND PEAS, DE	RY EDIBLE		FRUITS AND VEGET	TABLES 5 (Continued))
California	5	834	Maine	4	485
Other States	5	2,419	Massachusetts	4	508
Jnited States	10	3,253	Michigan	18	3,759
Jilled States	10	3,233	Mississippi	4	283
COTTON 4			New Jersey	10	864
OTTON			New York	10	1,120
California	3	2,711	North Carolina	3	56
Aississippi	3	3,315	Ohio	5	1,376
exas	4	24,300	Oregon	12	1,637
Other States			Pennsylvania	6	1,673
	6	11,490	Texas	5	337
oreign		68	Vermont	3	108
Inited States	16	41,884	Virginia	4	207
			Washington	23	5,644
AIRY			Other States	23	4,258
California	10	1,979	Foreign ⁶	_	81
ławaii	3	45		004	40.440
linois	4	2,423	United States	281	49,112
owa	10	10,742			
lichigan	3	4,334	GRAINS AND OILSE		
/linnesota	48	17,519	Arkansas	3	1,362
lew York	61	6,349	Colorado	16	10,029
lorth Dakota	5	1,040	Idaho	6	1,633
Ohio	6	3,692	Illinois	125	94,706
Dregon	3	661	Indiana	26	40,855
Pennsylvania	21	7,920	Iowa	152	99,608
'irginia	4	1,219	Kansas	129	123,535
Visconsin	35	32,769	Michigan	12	6,351
Other States	28	26,621	Minnesota	111	75,218
			Mississippi	6	2,332
Inited States	241	117,313	Missouri	21	30,040
			Montana	15	11,199
RUITS AND VEGETAL	BLES ⁵		Nebraska	77	68,687
rizona	4	734	North Dakota	142	75,104
rkansas	6	440	Ohio	49	37,815
California	75	21,710	Oklahoma	48	36,201
Colorado	10	421	Oregon	3	3,562
·lorida	33	2,376	South Dakota	77	55,119
Beorgia	5	189	Texas	38	18,311
ławaii	10	512	Washington	25	10,136
Centucky	4	334	Other States	9	3,732
			Foreign ⁶	_	327

Appendix Table 1— Number ¹ of co-ops and memberships ² by major business activity and State,1995 ³ (continued)

State	Hqts. in State	Memberships	State	Hqts. in State	Memberships
LIVESTOCK 5			TOBACCO®		
Alabama	7	6,666	Kentucky	5	70,889
Hawaii	4	10,478	North Carolina	8	66,480
Idaho	3	6,939	Tennessee	7	74,510
Illinois	3	23,332	Virginia	3	14,708
Indiana	3	2,247	Other States	3	43,189
Kentucky	4	377	Foreign ⁶	-	277
Michigan	4	29,504	United States	26	270,053
Mississippi	7	8,921	United States	20	270,053
Missouri	5	8,652	WOOL AND MOULAID		
North Dakota	7	9,359	WOOL AND MOHAIR	•	000
Ohio	4	7,832	Idaho	6	232
Virginia	6	1,312	Montana	20	998
West Virginia	3	606	North Dakota	6	247
Wisconsin	7	24,422	Pennsylvania	17	2,230
Other States	27	131,236	Utah	4	515
Foreign 6		1,736	Virginia	8	674
0			West Virginia	10	767
United States	94	273,619	Wyoming	4	108
			Other States	23	13,960
NUT ⁸			United States	98	19,731
California	6	6,556	Officed States	90	19,731
Hawaii	3	547	MISCELLANEOUS 11		
Other States	12	41,315		12	6.045
United Chalca	21	40.410	Alaska	13	6,245
United States	21	48,418	California	11	1,352
DOLU TRV 0			Florida	7	309
POULTRY®	0	70	Georgia	4	353
California	3	78	Hawaii	7	399
Utah	3	113	Maine	15	832
Other States	12	28,319	Massachusetts	4	278
Foreign ⁶		42	Michigan	3	109
United States	18	28,552	Minnesota	7	5,113
		,	Mississippi	4	262
RICE 5			North Dakota	3	2,834
California	5	2,208	Oregon	3	152
Louisiana	3	186	Washington	5	461
Texas	7	1,233	Other States	_23	3,837
Other States	4	12,286	United States	109	22,536
Foreign ⁶	_	1	ormed Glates	100	22,000
· ·	_		TOTAL MARKETING		
United States	19	15,914	Alabama	11	14,411
			Alaska	13	6,246
SUGAR 10			Arizona	5	2,015
ldaho	7	941		16	15,142
Louisiana	10	604	Arkansas		
Michigan	8	2,675	California	122	41,419
Minnesota	3	2,088	Colorado	32	14,246
Montana	3	535	Florida	45	8,164
Wyoming	4	466	Georgia	15	37,041
Other States	16	7,950	Hawaii	28	12,082
Foreign ⁶	_	2	Idaho	26	12,289
			Illinois	136	120,837
United States	51	15,261	Indiana	29	49,277

Appendix Table 1— Number 1 of co-ops and memberships 2 by major business activity and State,1995 3 (continued)

State	Hqts. in State	Memberships	State	Hqts. in State	Memberships
TOTAL MARKETING	(Continued)		FARM SUPPLY (Con	tinued)	
Iowa	167	139,509	Kentucky	29	123,237
Kansas	129	129,223	Louisiana	21	7,237
Kentucky	15	74,924	Maryland	15	52,324
Louisiana	20	5,543	Massachusetts	4	3,910
Maine	20	1,746	Michigan	33	16,638
Massachusetts	11	1,433	Minnesota	170	147,767
New Mexico	4	1,539	Mississippi	38	86,391
Michigan	49	47,658	Missouri	44	135,422
Minnesota	177	155,439	Montana	39	20,620
Mississippi	25	17,566	Nebraska	51	38,281
Missouri	29	44,172	New York	12	37,144
Montana	44	14,487	North Dakota	115	51,451
Nebraska	86	82,513	Ohio	22	14,806
New Jersey	15	3,101	Oklahoma	29	21,024
New York	78	10,031	Oregon	15	21,319
North Carolina	20	69,009	Pennsylvania	7	33,164
North Dakota	170	91,897	South Dakota	72	52,034
Ohio	70	67,083	Tennessee	70	71,110
Oklahoma	53	50,996	Texas	53	35,480
Oregon	24	9,984	Utah	8	5,322
Pennsylvania	48	11,991	Virginia	38	121,687
South Carolina	5	19,170	Washington	31	13,278
South Dakota	79	63,662	West Virginia	14	60,190
Tennessee	8	76,376	Wisconsin	129	123,088
Texas	67	52,906	Wyoming	6	4,008
Utah	13	5,626	Other States	13	99,471
Vermont	7	2,156	Foreign ⁶		626
Virginia	27	41,323			
Washington	57	17,725	United States	1,458	1,845,535
West Virginia	14	3,558			
Wisconsin	47	58,981	SERVICE 12		
Wyoming	8	611	Alabama	5	180
Other States	9	3,867	Arizona	4	922
Foreign 6	_	2,534	Arkansas	6	1,191
rordigir		2,004	California	48	4,217
United States	2,074	1,711,508	Hawaii	6	107
			Illinois	5	311
FARM SUPPLY			Iowa	3	1,690
Alabama	48	41,347	Kansas	4	144
Arkansas	42	46,699	Louisiana	14	2,306
California	20	13,915	Maryland	3	104
Colorado	22	19,604	Michigan	5	6,225
Florida	6	8,332	Minnesota	42	26,035
Georgia	8	2,737	Mississippi	26	8,346
Hawaii	6	2,739	New Mexico	4	1,527
Idaho	16	14,152	New York	5	14,755
Illinois	69	114,091	North Carolina	6	123
Indiana	30	62,576	North Dakota	9	496
lowa	87	100,149	Ohio	7	4,993
Kansas	26	22,165	Oklahoma	26	8,757

Appendix Table 1— Number 1 of co-ops and memberships 2 by major business activity and State, 1995 3 (continued)

State

Utah

Vermont

Virginia

Washington

Wisconsin

Wyoming

Foreign ⁶

West Virginia

Other States

United States

TOTAL (Continued)

State	Hqts. in State	Memberships
SERVICE 12 (Continued)		
Pennsylvania	8	16,918
Texas	162	42,343
Washington	4	5,678
Wisconsin	49	32,450
Other States	23	30,434
United States	474	210,252
TOTAL		
Alabama	64	55,938
Alaska	13	6,246
Arizona	10	10,017
Arkansas	64	63,032
California	192	59,551
Colorado	55	33,865
Connecticut	4	3,310
Delaware	3	29,072
Florida	53	28,382
Georgia	25	40,156
Hawaii	40	14,928
Idaho	43	26,441
Illinois	210	235,239
Indiana	61	111,952
lowa	257	241,348
Kansas	159	151,532
Kentucky	45	203,061
Louisiana	55	15,086
Maine	22	9,527
Maryland	20	53,464
Massachusetts	15	5,343
Michigan	87	70,521
Minnesota	389	329,241
Mississippi	89	112,303
Missouri	74	180,235
Montana	83	35,107
Nebraska	139	121,266
New Jersey	19	8,220
New Mexico	9	3,330
New York	95	61,930
North Carolina	28	113,082
North Dakota	294	143,844
Ohio	99	90,447
Oklahoma	108	77,651
Oregon	41	30,877
Pennsylvania	63	
•		62,073
South Carolina	7	19,612
South Dakota	151	116,128
Tennessee	79	148,933
Texas	282	130,729

¹ Includes centralized and federated cooperatives and those with mixed organizational structures.

Hqts. in State

22

7

67

92

28

225

14

5

4,006

Memberships

13,268

167,890

36,681

63,748

4,619

2,937

3,160

3,767,295

214,519

7,454

Includes farmer-members (entitled to vote for directors), but not nonvoting patrons. (Duplication in these membership figures occurs because many farmers belong to more than one cooperative.) Totals may not add due to rounding.

³ Data covering operations of cooperatives for fiscal years that ended in 1995. States listed are those with more than two cooperatives or where disclosure is not a problem.

⁴ Cotton ginning cooperatives in previous reports were included in this classification but reclassified as service cooperatives in 1989.

⁵ Cooperatives performing specific services related to a commodity are included. Incorporated local associations of a federation that perform the actual marketing or processing are counted.

⁶ Includes foreign memberships.

⁷ Excludes soybean meal and oil.

8 Membership fluctuates annually depending upon producer participation in price stabilization programs.

⁹ Includes eggs, turkeys, ratite, squab, and related products.

¹⁰ Includes sugar, sugarcane, sugar beets, honey, maple syrup, molasses, and sorghum.

¹¹ Includes forest products, hay, hops, nursery stock, coffee, and other farm products not separately classified.

¹² Cooperatives providing services related to marketing or purchasing activities. Major services provided are cotton ginning, trucking, storing, grinding, drying, and artificial insemination.

PRODUCTS MARKET EANS AND PEAS, DR' ralifornia other States nited States other States nited States other States nited States AIRY alifornia awaii inois owa lichigan linnesota ew York orth Dakota whio oregon ennsylvania	TED:	Net 117,737 90,718 208,455 587,321 418,634 1,006,424	Mississippi New Jersey New York North Carolina Ohio Oregon Pennsylvania Texas	13,657 211,438 298,802 21,003 6,953 575,884 289,416	13,262 211,062 293,002 19,447 6,953 575,647
EANS AND PEAS, DR' alifornia other States inited States ³ OTTON alifornia lississippi exas other States inited States AIRY alifornia awaii inois owa lichigan linnesota ew York orth Dakota othio oregon	Y EDIBLE 120,504 90,717 211,221 635,298 421,460 1,057,201 788,926	117,737 90,718 208,455 587,321 418,634	Mississippi New Jersey New York North Carolina Ohio Oregon Pennsylvania Texas	13,657 211,438 298,802 21,003 6,953 575,884 289,416	
EANS AND PEAS, DR' alifornia other States inited States ³ OTTON alifornia lississippi exas other States inited States AIRY alifornia awaii inois owa lichigan linnesota ew York orth Dakota othio oregon	Y EDIBLE 120,504 90,717 211,221 635,298 421,460 1,057,201 788,926	90,718 208,455 587,321 418,634	Mississippi New Jersey New York North Carolina Ohio Oregon Pennsylvania Texas	13,657 211,438 298,802 21,003 6,953 575,884 289,416	13,262 211,062 293,002 19,447 6,953 575,647
alifornia other States Inited States Inited States Inited States It is is is is is in it in it is in it in it is in it is in it in it in it is in it in i	120,504 90,717 211,221 635,298 421,460 1,057,201 788,926	90,718 208,455 587,321 418,634	New Jersey New York North Carolina Ohio Oregon Pennsylvania Texas	211,438 298,802 21,003 6,953 575,884 289,416	211,062 293,002 19,447 6,953 575,647
alifornia other States Inited States Inited States Inited States It is is is is is in it in it is in it in it is in it is in it in it in it is in it in i	120,504 90,717 211,221 635,298 421,460 1,057,201 788,926	90,718 208,455 587,321 418,634	New York North Carolina Ohio Oregon Pennsylvania Texas	298,802 21,003 6,953 575,884 289,416	293,002 19,447 6,953 575,647
orther States Inited States 3 OTTON Italifornia Itississippi exas Ither States Inited States AIRY Alifornia awaii inois Itinois Itin	90,717 211,221 635,298 421,460 1,057,201 788,926	90,718 208,455 587,321 418,634	North Carolina Ohio Oregon Pennsylvania Texas	21,003 6,953 575,884 289,416	19,447 6,953 575,647
orton alifornia lississippi exas other States anited States AIRY alifornia awaii inois owa lichigan linnesota ew York orth Dakota whio oregon	211,221 635,298 421,460 1,057,201 788,926	208,455 587,321 418,634	Ohio Oregon Pennsylvania Texas	6,953 575,884 289,416	6,953 575,647
OTTON alifornia lississippi exas ther States nited States AIRY alifornia awaii inois iwa lichigan linnesota ew York orth Dakota hio regon	635,298 421,460 1,057,201 788,926	587,321 418,634	Oregon Pennsylvania Texas	575,884 289,416	575,647
OTTON alifornia ississippi exas ther States nited States AIRY alifornia awaii inois wa ichigan innesota ew York orth Dakota hio regon	635,298 421,460 1,057,201 788,926	587,321 418,634	Pennsylvania Texas	289,416	
alifornia ississippi exas ther States nited States AIRY alifornia awaii inois wa ichigan innesota ew York orth Dakota hio regon	421,460 1,057,201 788,926	418,634	Texas		279 438
alifornia ississippi exas ther States nited States AIRY alifornia awaii inois wa ichigan innesota ew York orth Dakota hio regon	421,460 1,057,201 788,926	418,634		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	270,100
ississippi exas ther States nited States AIRY alifornia awaii inois wa ichigan innesota ew York orth Dakota hio regon	421,460 1,057,201 788,926	418,634		44,487	16,301
exas ther States nited States AIRY alifornia awaii nois wa ichigan innesota ew York orth Dakota nio regon	1,057,201 788,926		Vermont	9,427	9,427
cher States nited States AIRY alifornia awaii nois wa ichigan innesota ew York orth Dakota nio regon	788,926	1,006,424	Virginia	13,754	13,145
AIRY alifornia awaii inois wa ichigan innesota ew York orth Dakota hio regon			Washington	818,620	771,572
AIRY alifornia awaii nois wa ichigan innesota ew York orth Dakota nio	2,902,885	786,704	Other States	1,155,054	1,122,360
alifornia awaii nois wa ichigan innesota ew York orth Dakota nio regon		2,799,083	Foreign ⁴	19,629	18,826
alifornia awaii nois wa ichigan innesota ew York orth Dakota hio regon			United States	9,947,892	9,271,953
awaii nois wa ichigan innesota ew York orth Dakota nio regon	2,791,553	2,662,609			
nois wa chigan nnesota ew York orth Dakota nio egon	21,433	21,433		SEEDS EXCLUDING	G
va chigan nnesota ew York orth Dakota nio egon		811,771	COTTONSEED		
chigan nnesota ew York orth Dakota nio egon	931,340		Arkansas	187,296	186,213
nnesota ew York orth Dakota nio egon	930,828	862,796	Colorado	280,851	249,146
ew York orth Dakota nio egon	652,961	624,033	Idaho	43,315	43,315
orth Dakota nio egon	2,052,404	1,788,794	Illinois	2,076,317	2,068,292
nio regon	1,621,652	1,228,835	Indiana	1,301,046	967,560
regon	173,157	157,713	lowa	3,803,565	2,825,505
-	651,465	623,028	Kansas	2,073,069	1,773,049
ennsylvania	256,390	241,765	Michigan	412,655	270,923
	1,280,285	965,356	Minnesota	3,219,309	2,377,433
rginia	113,643	111,397	Mississippi	86,430	80,775
isconsin	4,677,481	4,383,774	Missouri	820,718	570,775
her States	7,513,893	7,300,505	Montana	453,804	284,345
nited States 2	23,668,484	21,783,809	Nebraska	2,012,738	1,737,404
mod Otatoo	20,000, 10 1	21,7 00,000	North Dakota	2,256,260	1,831,526
RUITS AND VEGETAB	IES		Ohio	1,321,884	988,399
izona	159,451	139,156	Oklahoma	615,396	447,918
kansas	1,355	1,355	Oregon	150,380	150,150
alifornia	3,846,187	3,469,272	South Dakota	1,548,192	1,198,988
olorado	27,055	27,055	Texas	1,070,349	644,652
orida		1,281,838	Washington	845,660	631,773
	1,338,037		Other States	570,750	510,555
eorgia	24,359	20,402	Foreign 4	47,655	25,734
waii	25,446	25,446	roreign ·	47,000	
entucky	7,894	7,894	United States	25,197,639	19,864,430
aine	33,683	33,683			
assachusetts ichigan	504,103 502,198	504,103 411,307			

Appendix Table 2— Cooperative business volume 1 by commodity and State, 1995 2 (continued)

	Busin	ess volume		Business volume	
State	Gross	Net	State	Gross	Net
	1,00	0 dollars		1,000	O dollars
LIVESTOCK			SUGAR		
Alabama	69,804	69,804	Idaho	139,942	139,942
-lawaii	4,086	4,086	Louisiana	260,472	260,472
daho	64,208	62,336	Michigan	113,261	113,261
Ilinois	524,734	524,734	Minnesota	590,726	522,467
ndiana	116,894	116,894	Montana	71,881	71,881
(entucky	24,082	24,082	Wyoming	41,353	41,353
Michigan	675,979	675,979	Other States	748,885	718,929
Mississippi	94,524	94,524	Foreign ⁴	298	298
Missouri	244,316	244,316	I I - 2 I Ol - I	4 000 040	4.000.000
North Dakota	91,244	84,119	United States	1,966,818	1,868,603
Ohio	304,858	304,858	TOD4.000		
/irginia	31,777	31,777	TOBACCO	500 550	500 FF
Vest Virginia	3,261	3,261	Kentucky	528,550	528,550
Visconsin	555,291	548,166	North Carolina	231,834	231,834
Other States	3,711,482	3,669,258	Tennessee	292,463	292,463
Foreign ⁴	15,549	15,549	Virginia	24,683	24,683 83,387
Inited States	6,532,089	6,473,743	Other States United States	83,387 1,160,917	1,160,917
NUTS			ormod otatos	.,,	.,,.
au is California	619.004	619.004	WOOL AND MOHA	IR	
Jaillornia Hawaii	618,904	618,904	Idaho	116	116
	24,056	24,056	Montana	1,111	1,111
Other States	222,640	222,640	North Dakota	95	95
Jnited States	865,600	865,600	Pennsylvania	264	264
			Utah	430	430
POULTRY 5			Virginia	124	124
California	41,882	41,882	West Virginia	168	168
Jtah	214,707	78,504	Wyoming	82	82
Other States	1,618,698	1,471,144	Other States	20,014	13,031
Inited States	1,875,287	1,591,530	United States	22,404	15,421
RICE			MISCELLANEOUS	MARKETING 6	
California	230,729	229,439	Alaska	13,040	13,040
ouisiana.	25,954	25,954	California	247,892	247,848
exas	58,151	58,151	Florida	18,766	18,677
Other States	585,998	585,998	Georgia	17,145	17,145
			Hawaii	13,792	13,792
Inited States	900,832	899,542	Maine	23,056	23,056
			Massachusetts	2,345	2,345
			Michigan	65,414	64,680
			Minnesota	476,466	391,143

Mississippi 163,493 159,451 North Dakota 59,320 45,668 Dregon 61,097 61,097 Mashington 199,037 198,993 Dither States 1,116,214 1,049,521 Foreign 4 216,993 211,305 United States 2,694,070 2,517,761 FOTAL FARM PRODUCTS MARKETED Alabama 1,017,012 970,180 Alaska 13,040 13,040 Arizona 704,420 666,601 Arizona 704,420 666,601 Arizona 704,420 466,601 Arizona 8,705,309 8,146,437 Colorado 614,683 581,642 Florida 2,227,104 2,165,583 Georgia 774,767 767,566 Hawaii 92,606 92,606 Alasas 2,782,406 2,482,386 Kentucky 813,399 783,664 Louisiana 454,128 450,447 Maine 76,014 75,557 Massachusetts 909,132 904,852 Michigan 2,472,931 2,210,646 Minnesota 6,765,968 5,386,882 Michigan 2,472,931 3,281,694 Mississippi 854,029 841,110 Missouri 2,220,784 1,956,533 Montana 596,106 426,647 Montana 596,106 426,647 Mebraska 3,579,743 3,281,694 Mew Jersey 256,869 252,541 Mew Mexico 163,275 162,784 Mew Jersey 256,869 252,541 Mew Mexico 163,275 162,784 Morth Dakota 2,902,811 2,411,840	OTAL FARM PR ennessee exas tah ermont irginia /ashington /est Virginia /isconsin /yoming ther States oreign 4 nited States	Gross 1,000 RODUCTS MARKETE 392,574 3,175,371 523,774 390,774 254,445 2,732,649 58,382 5,814,239 47,044 332,124 300,124 77,946,138	Net O dollars ED (continued) 391,217 2,620,836 380,434 382,984 249,550 2,420,036 55,373 5,510,694 47,044 315,697
MISCELLANEOUS MARKETING (continued) Mississippi 163,493 159,451 North Dakota 59,320 45,668 Dregon 61,097 61,097 Mashington 199,037 198,993 Dther States 1,116,214 1,049,521 Foreign 4 216,993 211,305 United States 2,694,070 2,517,761 Mashama 1,017,012 970,180 Maska 13,040 13,040 Arizona 704,420 666,601 Arkansas 1,172,449 1,164,760 Colorado 614,683 581,642 Colorado 63,227,104 2,165,583 Georgia 774,767 767,566 Hawaii 92,606 92,606 Mawaii 92,606 92,606 Massachusetts 909,132 904,852 Michigan 2,472,931 2,210,646 Minnesota 6,765,968 5,386,882 Michigan 2,472,931 2,210,646 Michigan 2,472,931 2,210,646 Michigan 2,472,931 2,210,646 Michigan 2,472,931 2,210,646 M	ennessee exas tah ermont irginia /ashington /est Virginia /isconsin /yoming ther States oreign 4 nited States	392,574 3,175,371 523,774 390,774 254,445 2,732,649 58,382 5,814,239 47,044 332,124 300,124	391,217 2,620,836 380,434 382,984 249,550 2,420,036 55,373 5,510,694 47,044
Mississippi 163,493 159,451 North Dakota 59,320 45,668 Dregon 61,097 61,097 Mashington 199,037 198,993 Dither States 1,116,214 1,049,521 Foreign 4 216,993 211,305 United States 2,694,070 2,517,761 FOTAL FARM PRODUCTS MARKETED Alabama 1,017,012 970,180 Alaska 13,040 13,040 Arizona 704,420 666,601 Arizona 704,420 666,601 Arizona 704,420 466,601 Arizona 8,705,309 8,146,437 Colorado 614,683 581,642 Florida 2,227,104 2,165,583 Georgia 774,767 767,566 Hawaii 92,606 92,606 Alasas 2,782,406 2,482,386 Kentucky 813,399 783,664 Louisiana 454,128 450,447 Maine 76,014 75,557 Massachusetts 909,132 904,852 Michigan 2,472,931 2,210,646 Minnesota 6,765,968 5,386,882 Michigan 2,472,931 3,281,694 Mississippi 854,029 841,110 Missouri 2,220,784 1,956,533 Montana 596,106 426,647 Montana 596,106 426,647 Mebraska 3,579,743 3,281,694 Mew Jersey 256,869 252,541 Mew Mexico 163,275 162,784 Mew Jersey 256,869 252,541 Mew Mexico 163,275 162,784 Morth Dakota 2,902,811 2,411,840	ennessee exas tah ermont irginia /ashington /est Virginia /isconsin /yoming ther States oreign 4 nited States	392,574 3,175,371 523,774 390,774 254,445 2,732,649 58,382 5,814,239 47,044 332,124 300,124	391,217 2,620,836 380,434 382,984 249,550 2,420,036 55,373 5,510,694 47,044
North Dakota 59,320 45,668 Oregon 61,097 61,097 Washington 199,037 198,993 Other States 1,116,214 1,049,521 Foreign 4 216,993 211,305 United States 2,694,070 2,517,761 FOTAL FARM PRODUCTS MARKETED Mabama 1,017,012 970,180 Maska 13,040 13,040 Arizona 704,420 666,601 Arkansas 1,172,449 1,164,760 California 8,705,309 8,146,437 Colorado 614,683 581,642 Florida 2,227,104 2,165,583 Georgia 774,767 767,566 Hawaii 92,606 92,606 Hawaii 92,606 92,606 Hawaii 92,606 92,606 Hawaii 92,606 92,606 Maska 2,782,406 2,482,386 Kentucky 813,399 783,664 Louisiana 454,128 450,447 Maine 76,014 75,557 Massachusetts 909,132 904,852 Michigan 2,472,931 2,210,646 Minnesota 6,765,968 5,386,882 Michigan 2,472,931 3,281,694 Mississisppi 854,029 841,110 Missouri 2,220,784 1,956,533 Montana 596,106 426,647 Montana 596,106 426,647 Mebraska 3,579,743 3,281,694 Mew Jersey 256,869 252,541 Mew Mexico 163,275 162,784 Mew Jersey 256,869 252,541 Mew Mexico 163,275 162,784 Morth Dakota 2,902,811 2,411,840	exas tah ermont irginia /ashington /est Virginia /isconsin /yoming ther States oreign 4	3,175,371 523,774 390,774 254,445 2,732,649 58,382 5,814,239 47,044 332,124 300,124	2,620,836 380,434 382,984 249,550 2,420,036 55,373 5,510,694 47,044
Oregon 61,097 61,097 Washington 199,037 198,993 Other States 1,116,214 1,049,521 Foreign 4 216,993 211,305 United States 2,694,070 2,517,761 FOTAL FARM PRODUCTS MARKETED Alabama 1,017,012 970,180 Alaska 13,040 13,040 Arizona 704,420 666,601 Arkansas 1,172,449 1,164,760 California 8,705,309 8,146,437 Colorado 614,683 581,642 Florida 2,227,104 2,165,583 Georgia 774,767 767,566 Idawaii 92,606 92,606 Idaho 856,545 849,727 Idinois 3,563,710 3,436,117 Indiana 1,903,130 1,530,556 Identucky 813,399 783,664 Identucky 813,399 783,664 Identucky 813,399 783,664 Identucky	tah ermont irginia /ashington /est Virginia /isconsin /yoming ther States oreign 4 nited States	523,774 390,774 254,445 2,732,649 58,382 5,814,239 47,044 332,124 300,124	380,434 382,984 249,550 2,420,036 55,373 5,510,694 47,044
Washington 199,037 198,993 Other States 1,116,214 1,049,521 Foreign 4 216,993 211,305 United States 2,694,070 2,517,761 FOTAL FARM PRODUCTS MARKETED Alabama 1,017,012 970,180 Alaska 13,040 13,040 Arkansas 1,172,449 1,164,760 Arkansas 1,172,449 1,164,760 Colorado 614,683 581,642 Colorado 614,683 581,642 Georgia 774,767 767,566 Hawaii 92,606 92,606 Jakawaii 92,606	ermont irginia /ashington /est Virginia /isconsin /yoming ther States oreign 4 nited States	390,774 254,445 2,732,649 58,382 5,814,239 47,044 332,124 300,124	382,984 249,550 2,420,036 55,373 5,510,694 47,044
Washington 199,037 198,993 Other States 1,116,214 1,049,521 Foreign 4 216,993 211,305 United States 2,694,070 2,517,761 FOTAL FARM PRODUCTS MARKETED Alabama 1,017,012 970,180 Alaska 13,040 13,040 Arizona 704,420 666,601 Arkansas 1,172,449 1,164,760 Colorado 614,683 581,642 Florida 2,227,104 2,165,583 Georgia 774,767 767,566 Hawaii 92,606 92,606 Jakawaii 92,814	irginia /ashington /est Virginia /isconsin /yoming ther States oreign 4 nited States	254,445 2,732,649 58,382 5,814,239 47,044 332,124 300,124	249,550 2,420,030 55,370 5,510,694 47,044
Toreign 216,993 211,305 2,517,761 2,517,761 2,517,761 2,517,761 2,517,761 2,517,761 2,517,761 2,517,761 2,517,761 3,040 3,	/ashington /est Virginia /isconsin /yoming ther States oreign ⁴ nited States	2,732,649 58,382 5,814,239 47,044 332,124 300,124	2,420,036 55,373 5,510,694 47,044
United States 2,694,070 2,517,761 FOTAL FARM PRODUCTS MARKETED Alabama 1,017,012 970,180 Alaska 13,040 13,040 Arizona 704,420 666,601 Arkansas 1,172,449 1,164,760 California 8,705,309 8,146,437 Colorado 614,683 581,642 Florida 2,227,104 2,165,583 Georgia 774,767 767,566 Hawaii 92,606 92,606 daho 856,545 849,727 Illinois 3,563,710 3,436,117 Indiana 1,903,130 1,530,556 Iowa 6,586,714 5,522,612 Iowa 6,586,714 5,522,612 Iowa 6,586,714 5,522,612 Iowa 6,586,714 75,557 Iowa 1,903,130 1,530,556 Iowa 6,586,714 5,522,612 Iowa 6,586,714 5,522,612 Iowa 6,586,714 75,557 Iowa 1,903,130 1,530,556 Iowa 6,586,714 5,522,612 Iowa 6,586,714 Iowa 6,586,	/est Virginia /isconsin /yoming ther States oreign ⁴ nited States	58,382 5,814,239 47,044 332,124 300,124	55,373 5,510,694 47,044
TOTAL FARM PRODUCTS MARKETED Alabama 1,017,012 970,180 Alaska 13,040 13,040 Arizona 704,420 666,601 Arkansas 1,172,449 1,164,760 California 8,705,309 8,146,437 Colorado 614,683 581,642 Elorida 2,227,104 2,165,583 Georgia 774,767 767,566 Hawaii 92,606 92,606 Adaho 856,545 849,727 Illinois 3,563,710 3,436,117 Indiana 1,903,130 1,530,556 Iowa 6,586,714 5,522,612 Kansas 2,782,406 2,482,386 Kentucky 813,399 783,664 Louisiana 454,128 450,447 Alaine 76,014 75,557 Massachusetts 909,132 904,852 Alichigan 2,472,931 2,210,646 Alinnesota 6,765,968 5,386,882 Alichigan 2,472,931 2,210,646 Alinnesota 6,765,968 5,386,882 Alichigan 2,472,931 2,210,646 Alinnesota 6,765,968 5,386,882 Alichigan 2,472,931 3,281,694 Alichigan 596,106 426,647 Alichigan 596,10	/isconsin /yoming ther States oreign ⁴ nited States	5,814,239 47,044 332,124 300,124	5,510,694 47,044
Alabama 1,017,012 970,180 Alabama 1,017,012 970,180 Alaska 13,040 13,040 Arizona 704,420 666,601 Arkansas 1,172,449 1,164,760 California 8,705,309 8,146,437 Colorado 614,683 581,642 Florida 2,227,104 2,165,583 Georgia 774,767 767,566 Hawaii 92,606 92,606 Idinois 3,563,710 3,436,117 Indiana 1,903,130 1,530,556 Idinois 3,563,710 3,436,117 Indiana 1,903,130 1,530,556 Idinois 3,563,714 5,522,612 Idinois 3,563,714 5,522,612 Idinois 454,128 450,447 Idine 76,014 75,557 Idinine 76,014 75,557 Idininesota 6,765,968 5,386,882 Idininesota 6,765,968	/yoming ther States oreign ⁴ nited States	47,044 332,124 300,124	47,044
Alabama 1,017,012 970,180 Alaska 13,040 13,040 Arizona 704,420 666,601 Arkansas 1,172,449 1,164,760 California 8,705,309 8,146,437 Colorado 614,683 581,642 Clorida 2,227,104 2,165,583 Georgia 774,767 767,566 Alawaii 92,606 92,606 Alawaii 92,60	ther States oreign ⁴ nited States	332,124 300,124	
Alabama 1,017,012 970,180 Alaska 13,040 13,040 Arizona 704,420 666,601 Arkansas 1,172,449 1,164,760 California 8,705,309 8,146,437 Colorado 614,683 581,642 Florida 2,227,104 2,165,583 Georgia 774,767 767,566 Hawaii 92,606 92,606 Alawaii 92,606	ther States oreign ⁴ nited States	300,124	
Alaska 13,040 13,040 Arizona 704,420 666,601 Arkansas 1,172,449 1,164,760 California 8,705,309 8,146,437 Colorado 614,683 581,642 Clorida 2,227,104 2,165,583 Georgia 774,767 767,566 Hawaii 92,606 92,606 Ilinois 3,563,710 3,436,117 Indiana 1,903,130 1,530,556 Ilowa 6,586,714 5,522,612 Ilinois 813,399 783,664 Ilinois 813,399 783,664 Ilinois 90,9132 904,852 Ilinois 90,132 90,132 904,852 Ilinois 90,132 904,852 Ili	nited States	300,124	2.0,001
Arizona 704,420 666,601 Arkansas 1,172,449 1,164,760 California 8,705,309 8,146,437 Colorado 614,683 581,642 Cilorida 2,227,104 2,165,583 Georgia 774,767 767,566 Adawaii 92,606 92,606 Adawaii 92,606 92,606 Adaho 856,545 849,727 Alawaii 92,606 92,606 Adaho 856,545 849,727 Adama 1,903,130 1,530,556 Adama 1,903,130 1,530,556 Adama 2,782,406 2,482,386 Adama 2,782,406 2,482,386 Adama 454,128 450,447 Adaine 76,014 75,557 Adassachusetts 909,132 904,852 Adichigan 2,472,931 2,210,646 Adississippi 854,029 841,110 Adississippi 854,029 852,541 Adississippi 854,029 Ad	nited States		271,712
Arkansas 1,172,449 1,164,760 California 8,705,309 8,146,437 Colorado 614,683 581,642 Clorida 2,227,104 2,165,583 Georgia 774,767 767,566 Hawaii 92,606 92,606 Ilinois 3,563,710 3,436,117 Indiana 1,903,130 1,530,556 Ilinois 3,568,714 5,522,612 Cansas 2,782,406 2,482,386 Centucky 813,399 783,664 Ilinois 76,014 75,557 Illinois 76,014 75,506 Illinois 76,014 75,006 Illinois 76,014 75,006 Illinois 76,014 75,006 Illin		77,946,138	
California 8,705,309 8,146,437 Colorado 614,683 581,642 Clorida 2,227,104 2,165,583 Georgia 774,767 767,566 Hawaii 92,606 92,606 Jaho 856,545 849,727 Jaho 843,710 3,436,117 Jaho 1,903,130 1,530,556 Jaho 1,903,130 1,530,556 Jaho 2,482,386 1,522,612 Jaho 2,482,386 1,428 Jaho 2,482,386 1,433,399 Jaho 783,664 1,428 Jaho 450,447 1,436 Jaho 76,014 75,557 Jaho 76,014 <t< td=""><td>ARM SUPPLIES</td><td></td><td>69,320,846</td></t<>	ARM SUPPLIES		69,320,846
Colorado 614,683 581,642 Florida 2,227,104 2,165,583 Georgia 774,767 767,566 Flawaii 92,606 92,606 Idaho 856,545 849,727 Illinois 3,563,710 3,436,117 Indiana 1,903,130 1,530,556 Illinois 2,782,406 2,482,386 Illinois 813,399 783,664 Illinois 813,399 783,664 Illinois 90,132 904,852 Illinois 90,132 904,852 Illinois 90,132 904,852 Illinois 1,003,130 1,530,556 Illinois 1,006,501 Illinois 1,006,50	AHM SUPPLIES	0001/1050	
Florida 2,227,104 2,165,583 Georgia 774,767 767,566 Flawaii 92,606 92,606 Idaho 856,545 849,727 Illinois 3,563,710 3,436,117 Indiana 1,903,130 1,530,556 Idana 6,586,714 5,522,612 Idana 6,586,714 5,522,612 Idana 782,406 2,482,386 Idana 454,128 450,447 Idane 76,014 75,557 Idana 76,014 75,557 Idana 2,472,931 2,210,646 Idinnesota 6,765,968 5,386,882 Idinsissisppi 854,029 841,110 Idinsouri 2,220,784 1,956,533 Idana 596,106 426,647 Idebraska 3,579,743 3,281,694 Idew Jersey 256,869 252,541 Idew Mexico 163,275 162,784 Idew Mexico 163,275 162,784 Iderth Dakota 2,902,811 2,411,840 Identh Dakota 2,902,811 2,411,840		PROVIDED:	
Georgia 774,767 767,566 Hawaii 92,606 92,606 Jaho 856,545 849,727 Jaho 3,563,710 3,436,117 Jaholiana 1,903,130 1,530,556 Jahowa 6,586,714 5,522,612 Jahowa 2,782,406 2,482,386 Jahowa 813,399 783,664 Jahowa 454,128 450,447 Jahowa 454,128 450,447 Jahowa 76,014 75,557 Jahowa 99,132 904,852 Jahowa 2,472,931 2,210,646 Jahowa 6,765,968 5,386,882 Jahowa 6,765,968 5,386,882 Jahowa 1,956,533 1 Jahowa 2,220,784 1,956,533 Jahowa 1,956,533 1 Jahowa 1,956,533 1 Jahowa 1,956,533 1 Jahowa 1,9743 3,281,694 Jahowa 1,956,533 1 Jahowa 1,956,533 1 Jahowa <td></td> <td>ANTO</td> <td></td>		ANTO	
Idawaii 92,606 92,606 Idaho 856,545 849,727 Ilinois 3,563,710 3,436,117 Indiana 1,903,130 1,530,556 Inwa 6,586,714 5,522,612 Kansas 2,782,406 2,482,386 Kentucky 813,399 783,664 Kinise 909,132 904,852 Kinise 909,132 904,852 Kinise 909,132 904,852	ROP PROTECT		45.074
daho 856,545 849,727 6 Ilinois 3,563,710 3,436,117 6 ndiana 1,903,130 1,530,556 1 owa 6,586,714 5,522,612 6 Kansas 2,782,406 2,482,386 1 Kentucky 813,399 783,664 1 Jouisiana 454,128 450,447 1 Jaine 76,014 75,557 1 Massachusetts 909,132 904,852 1 Michigan 2,472,931 2,210,646 1 Minnesota 6,765,968 5,386,882 1 Mississispipi 854,029 841,110 1 Missouri 2,220,784 1,956,533 1 Montana 596,106 426,647 1 New Jersey 256,869 252,541 1 New Mexico 163,275 162,784 1 New York 2,003,628 1,605,012 1 North Carolina 531,132	labama	90,610	45,871
Ilinois 3,563,710 3,436,117 Indiana 1,903,130 1,530,556 Iowa 6,586,714 5,522,612 Kansas 2,782,406 2,482,386 Kentucky 813,399 783,664 Louisiana 454,128 450,447 Jaine 76,014 75,557 Massachusetts 909,132 904,852 Michigan 2,472,931 2,210,646 Minnesota 6,765,968 5,386,882 Mississippi 854,029 841,110 Missouri 2,220,784 1,956,533 Montana 596,106 426,647 New Jersey 256,869 252,541 New Jersey 256,869 252,541 New Mexico 163,275 162,784 New York 2,003,628 1,605,012 North Carolina 531,132 525,277 North Dakota 2,902,811 2,411,840	rkansas	161,261	84,517
Indiana 1,903,130 1,530,556 Indiana 1,903,130 1,530,556 Indiana 6,586,714 5,522,612 Idansas 2,782,406 2,482,386 Identucky 813,399 783,664 Identucky 8450,447 10 Identine 76,014 75,557 10 Identine 76,014 75,557 10 Identine 909,132 904,852 10 Identine 2,472,931 2,210,646 10 Identinesota 6,765,968 5,386,882 10 Identinesota 3,579,743 3,281,694 10	alifornia	23,138	19,118
owa 6,586,714 5,522,612 Kansas 2,782,406 2,482,386 Kentucky 813,399 783,664 Louisiana 454,128 450,447 Maine 76,014 75,557 Massachusetts 909,132 904,852 Michigan 2,472,931 2,210,646 Minnesota 6,765,968 5,386,882 Mississisppi 854,029 841,110 Missouri 2,220,784 1,956,533 Montana 596,106 426,647 Mebraska 3,579,743 3,281,694 New Jersey 256,869 252,541 New Mexico 163,275 162,784 New York 2,003,628 1,605,012 North Carolina 531,132 525,277 North Dakota 2,902,811 2,411,840	olorado	41,308	26,171
Kansas 2,782,406 2,482,386 Kentucky 813,399 783,664 Jouisiana 454,128 450,447 Jaine 76,014 75,557 Jassachusetts 909,132 904,852 Jichigan 2,472,931 2,210,646 Jinnesota 6,765,968 5,386,882 Jississippi 854,029 841,110 Jissouri 2,220,784 1,956,533 Jontana 596,106 426,647 Jebraska 3,579,743 3,281,694 Jew Jersey 256,869 252,541 Jew Mexico 163,275 162,784 Jew York 2,003,628 1,605,012 Jorth Carolina 531,132 525,277 Jorth Dakota 2,902,811 2,411,840	lorida	16,200	15,970
Kentucky 813,399 783,664 Jouisiana 454,128 450,447 Jaine 76,014 75,557 Jassachusetts 909,132 904,852 Jichigan 2,472,931 2,210,646 Jinnesota 6,765,968 5,386,882 Jississippi 854,029 841,110 Jissouri 2,220,784 1,956,533 Jontana 596,106 426,647 Jebraska 3,579,743 3,281,694 Jew Jersey 256,869 252,541 Jew Mexico 163,275 162,784 Jew York 2,003,628 1,605,012 Jorth Carolina 531,132 525,277 Jorth Dakota 2,902,811 2,411,840	eorgia 	59,895	56,922
Louisiana 454,128 450,447 I Maine 76,014 75,557 I Massachusetts 909,132 904,852 I Michigan 2,472,931 2,210,646 I Minnesota 6,765,968 5,386,882 I Mississippi 854,029 841,110 I Missouri 2,220,784 1,956,533 I Montana 596,106 426,647 I Nebraska 3,579,743 3,281,694 I New Jersey 256,869 252,541 I New Mexico 163,275 162,784 I New York 2,003,628 1,605,012 I North Carolina 531,132 525,277 I North Dakota 2,902,811 2,411,840 I	awaii	1,671	1,671
Maine 76,014 75,557 I Massachusetts 909,132 904,852 I Michigan 2,472,931 2,210,646 I Minnesota 6,765,968 5,386,882 I Mississippi 854,029 841,110 I Missouri 2,220,784 1,956,533 I Montana 596,106 426,647 I Nebraska 3,579,743 3,281,694 I New Jersey 256,869 252,541 I New Mexico 163,275 162,784 I New York 2,003,628 1,605,012 I North Carolina 531,132 525,277 I North Dakota 2,902,811 2,411,840 I	laho	34,049	16,812
Massachusetts 909,132 904,852 I Michigan 2,472,931 2,210,646 I Minnesota 6,765,968 5,386,882 I Mississippi 854,029 841,110 I Missouri 2,220,784 1,956,533 I Montana 596,106 426,647 I Mebraska 3,579,743 3,281,694 I New Jersey 256,869 252,541 I New Mexico 163,275 162,784 I New York 2,003,628 1,605,012 I North Carolina 531,132 525,277 I North Dakota 2,902,811 2,411,840 I	inois	398,906	268,829
Alichigan 2,472,931 2,210,646 I Alinnesota 6,765,968 5,386,882 I Alississippi 854,029 841,110 I Alissouri 2,220,784 1,956,533 I Montana 596,106 426,647 I Alebraska 3,579,743 3,281,694 I Alew Jersey 256,869 252,541 I Alew Mexico 163,275 162,784 I Alew York 2,003,628 1,605,012 I Alorth Carolina 531,132 525,277 I North Dakota 2,902,811 2,411,840 I	diana	235,406	164,213
Minnesota 6,765,968 5,386,882 I Mississippi 854,029 841,110 I Missouri 2,220,784 1,956,533 I Montana 596,106 426,647 I Nebraska 3,579,743 3,281,694 I New Jersey 256,869 252,541 I New Mexico 163,275 162,784 I New York 2,003,628 1,605,012 I North Carolina 531,132 525,277 I North Dakota 2,902,811 2,411,840 I	wa	463,370	369,544
Mississippi 854,029 841,110 I Missouri 2,220,784 1,956,533 I Montana 596,106 426,647 I Nebraska 3,579,743 3,281,694 I New Jersey 256,869 252,541 I New Mexico 163,275 162,784 I New York 2,003,628 1,605,012 I North Carolina 531,132 525,277 I North Dakota 2,902,811 2,411,840 I	ansas	136,721	92,939
Alissouri 2,220,784 1,956,533 1 Montana 596,106 426,647 1 Nebraska 3,579,743 3,281,694 1 New Jersey 256,869 252,541 1 New Mexico 163,275 162,784 1 New York 2,003,628 1,605,012 1 North Carolina 531,132 525,277 1 North Dakota 2,902,811 2,411,840 1	entucky	44,466	40,096
Montana 596,106 426,647 1 Nebraska 3,579,743 3,281,694 1 New Jersey 256,869 252,541 1 New Mexico 163,275 162,784 1 New York 2,003,628 1,605,012 1 North Carolina 531,132 525,277 1 North Dakota 2,902,811 2,411,840 1	ouisiana	64,795	33,279
Nebraska 3,579,743 3,281,694 I New Jersey 256,869 252,541 I New Mexico 163,275 162,784 I New York 2,003,628 1,605,012 I North Carolina 531,132 525,277 I North Dakota 2,902,811 2,411,840 I	aryland	20,813	18,783
New Jersey 256,869 252,541 1 New Mexico 163,275 162,784 1 New York 2,003,628 1,605,012 1 North Carolina 531,132 525,277 1 North Dakota 2,902,811 2,411,840 1	assachusetts	2,433	2,346
New Mexico 163,275 162,784 1 New York 2,003,628 1,605,012 1 North Carolina 531,132 525,277 1 North Dakota 2,902,811 2,411,840 1	ichigan	40,721	29,633
New York 2,003,628 1,605,012 1 North Carolina 531,132 525,277 1 North Dakota 2,902,811 2,411,840 1	innesota	340,786	280,763
North Carolina 531,132 525,277 1 North Dakota 2,902,811 2,411,840 I	ississippi	58,812	57,892 67,803
North Dakota 2,902,811 2,411,840	10001181	86,274 46,690	67,803
	issouri	46,680	30,907
	ontana	191,704	152,777 13,411
	ontana ebraska	16,409	
	ontana ebraska ew York	140,348	106,599
	ontana ebraska ew York orth Dakota	94,079 27,256	82,396 19,544
	ontana ebraska ew York orth Dakota hio	21.200	
	ontana ebraska ew York orth Dakota hio klahoma		26,900
South Dakota 1,968,806 1,571,116 5	ontana ebraska ew York orth Dakota hio	37,742 12,576	12,041 102,895

Appendix Table 2— Cooperative business volume 1 by commodity and State, 1995 2 (continued)

	Busine	ess volume		Business volume	
State	Gross	Net	State	Gross	Net
	1,00	O dollars		1,000	0 dollars
CROP PROTECTA	NTS (Continued)		FEED (Continued)		
Tennessee	123,169	68,002	Virginia	102,796	88,793
Гехаѕ	76,139	57,035	Washington	87,398	33,320
Jtah	20,316	9,928	West Virginia	16,112	13,72
/irginia	22,290	18,857	Wisconsin	397,122	268,35°
Vashington	51,958	37,213	Wyoming	1,807	1,807
Vest Virginia	3,165	2,861	Other States	465,634	427,750
/isconsin	169,996	117,440	Foreign ⁴	133,127	61,953
Vyoming	15,357	4,969	-		
Other States	75,428	67,434	United States	6,639,436	5,017,012
oreign 4	33,816	3,307	CEDTU IZED		
nited States	3,612,107	2,627,685	FERTILIZER Alabama	126,082	69,972
Tilled Olales	0,012,107	2,027,000	Arkansas	168,321	90,385
EED			California	77,151	75,906
labama	188,607	171,139	Colorado	114,665	80,437
rkansas	152,189	94,331	Florida	165,604	41,809
California	166,732	131,843	Georgia	81,403	74,541
colorado	47,593	36,481	Hawaii	20,878	2,402
Torida	84,930	83,125	Idaho	59,784	32,329
ieorgia	247,388	245,663	Illinois	794,485	414,224
lawaii	17,428	5,798	Indiana	555,430	264,877
faho	40,105	21,789	lowa	800,698	491,633
linois	275,550	202,332	Kansas	495,982	339,456
ndiana	285,714	140,275	Kentucky	147,336	98,983
	1,020,081	778,024	Louisiana	52,212	28,417
owa	262,819	177,338	Maryland		
ansas		47,825	•	31,673	28,944 4,193
entucky	57,694		Massachusetts	4,354	
ouisiana Iondond	49,836	30,736	Michigan	69,044	46,447
laryland	40,711	36,397	Minnesota	613,307	379,525
lassachusetts	32,898	31,623	Mississippi	69,878	65,956
lichigan	64,578	60,800	Missouri	370,395	226,764
linnesota	617,285	463,391	Montana	91,067	61,022
lississippi	75,218	57,462	Nebraska	386,904	288,337
lissouri	233,188	188,749	New York	24,979	24,097
fontana 	23,279	17,714	North Dakota	348,456	208,504
lebraska	225,110	157,884	Ohio	188,759	129,446
lew York	138,048	123,817	Oklahoma	147,770	104,914
lorth Dakota	59,887	40,797	Oregon	63,669	42,270
)hio	131,299	128,663	Pennsylvania	22,324	21,549
klahoma	81,050	59,974	South Dakota	227,186	145,290
Pregon	108,220	42,512	Tennessee	237,085	125,032
ennsylvania	117,973	110,069	Texas	243,092	158,113
outh Dakota	151,959	110,603	Utah	31,280	20,160
ennessee	202,128	118,521	Virginia	67,174	61,034
exas	157,238	127,809	Washington	46,572	30,394
<i>I</i> tah	78,705	77,833	West Virginia	9,279	8,462

Appendix Table 2— Cooperative business volume 1 by commodity and State, 19952 (continued)

0	Busin	ess volume		Business volume		
State	Gross	Net	State	Gross	Net	
	1,00	0 dollars		1,000) dollars	
ERTILIZER (contin	ued)		PETROLEUM (Conf	tinued)		
Visconsin `	323,328	181,176	Other States	205,966	174,516	
Vyoming	27,418	9,080	Foreign 4	195,842	59,064	
Other States	131,246	118,044	Linite of Okada			
oreign⁴	475,446	97,992	United States	8,133,935	5,210,892	
Inited States	7,911,716	4,692,116	SEED			
			Alabama	47,398	19,806	
PETROLEUM			Arkansas	36,701	21,695	
labama	7,626	7,400	California	19,393	19,393	
irkansas	105,198	62,597	Colorado	3,192	3,192	
alifornia	7,054	6,984	Florida	7,493	5,818	
Colorado	209,945	124,523	Georgia	15,707	14,987	
lorida	3,449	3,449	Hawaii	313	313	
ieorgia	7,983	7,983	Idaho	12,646	6,127	
lawaii	488	488	Illinois	59,589	39,775	
daho	122,121	61,515	Indiana	44,115	25,173	
linois	634,458	377,794	Iowa	60,239	38,786	
ndiana	369,870	238,527	Kansas	10,113	10,113	
owa	705,653	426,448	Kentucky	22,695	20,591	
ansas	884,936	317,091	Louisiana	20,508	10,676	
entucky	81,362	64,413	Maryland	10,641	9,656	
ouisiana	20,533	13,867	Massachusetts	2,332	2,279	
laryland	62,309	56,085	Michigan	11,536	11,228	
lassachusetts	25,577	21,165	Minnesota	47,612	40,229	
lichigan	145,745	70,835	Mississippi	13,682	13,682	
linnesota	556,398	461,857	Missouri	49,511	22,475	
lississippi	20,876	19,614	Montana	5,933	4,512	
lissouri	511,977	361,768	Nebraska	9,279	7,021	
lontana	174,238	128,565	New York	8,006	7,656	
lebraska	404,901	276,656	North Dakota	24,448	22,272	
ew York	173,518	143,233	Ohio	20,207	20,207	
lorth Dakota	296,656	228,075	Oklahoma	4,306	4,306	
Phio	112,636	91,873	Oregon	12,782	12,782	
klahoma	261,547	90,505	Pennsylvania	7,015	6,707	
Pregon	142,690	93,987	South Dakota	13,396	10,905	
ennsylvania	152,812	126,512	Tennessee	53,807	33,400	
outh Dakota	306,112	220,221	Texas	16,067	16,067	
ennessee	101,926	64,691	Utah	2,387	2,387	
exas	157,682	106,931	Virginia	21,585	19,635	
tah	78,342	15,879	Washington	19,739	19,029	
irginia	111,486	94,938	West Virginia	4,119	3,701	
/ashington	159,598	115,918	**OSC * II gillia	7,110	5,701	
vasnington Vest Virginia	27,091	25,351				
Visconsin	486,518	394,295				
Vyoming	100,816	55,279				
younng	100,010	55,279				

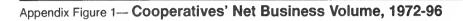
Appendix Table 2— Cooperative business volume 1 by commodity and State, 1995 2 (continued)

State	Business volume			Business volume		
	Gross	Net	State	Gross	Net	
	1,000 dollars			1,000 dollars		
SEED (continued)	ED (continued)			MISCELLANEOUS SUPPLIES 7 (continued)		
Visconsin	33,358	23,729	Wisconsin	232,943	215,918	
Nyoming	609	591	Wyoming	29,378	27,610	
Other States	34,236	30,889	Other States	271,607	244,816	
Foreign ⁴	4,289	912	Foreign ⁴	30,231	7,873	
Jnited States	790,984	582,702	United States	3,876,369	3,082,977	
MISCELLANEOUS SUPPLIES 7			TOTAL FARM SUPPLIES			
Alabama	92,211	80,775	Alabama	552,534	394,963	
Arkansas	126,148	88,907	Arkansas	749,818	442,432	
California	167,326	91,990	California	460,794	345,232	
Colorado	54,256	45,473	Colorado	470,960	316,277	
- lorida	95,318	95,312	Florida	372,993	245,482	
Georgia	82,716	79,168	Georgia	495,092	479,263	
ławaii	8,633	5,109	Hawaii	49,410	15,781	
daho	41,110	35,895	Idaho	309,816	174,467	
llinois	149,049	80,274	Illinois	2,312,037	1,383,228	
ndiana	66,593	48,692	Indiana	1,557,128	881,757	
owa	200,069	148,125	Iowa	3,250,110	2,252,561	
Cansas	114,831	80,243	Kansas	1,905,403	1,017,180	
Kentucky	70,440	60,319	Kentucky	423,992	332,226	
.ouisiana	49,464	34,051	Louisiana	257,349	151,025	
/laryland	35,768	32,288	Maryland	201,915	182,153	
Massachusetts	23,746	23,065	Massachusetts	91,340	84,671	
1ichigan	90,392	76,377	Michigan	422,016	295,321	
/linnesota	249,235	198,647	Minnesota	2,424,623	1,824,412	
Mississippi	45,296	45,296	Mississippi	283,761	259,901	
Missouri	107,926	67,209	Missouri	1,359,271	934,768	
Montana	49,402	45,445	Montana	390,599	288,165	
Nebraska	93,557	75,734	Nebraska	1,311,455	958,409	
New York	167,310	136,042	New York	528,270	448,256	
North Dakota	115,151	107,019	North Dakota	984,947	713,266	
Ohio	85,256	66,594	Ohio	632,236	519,178	
Oklahoma	42,350	31,687	Oklahoma	564,280	310,929	
Oregon	112,625	108,711	Oregon	477,728	327,162	
Pennsylvania	100,371	96,340	Pennsylvania	413,071	373,217	
South Dakota	77,879	68,416	South Dakota	908,576	658,329	
ennessee	165,714	97,545	Tennessee	883,828	507,192	
Гехаѕ	99,582	80,374	Texas	749,800	546,329	
Jtah	43,955	41,318	Utah	254,985	167,505	
/irginia	155,407	115,407	Virginia	480,738	398,665	
Vashington	105,062	74,089	Washington	470,327	309,962	
Vest Virginia	28,062	24,824	Ÿ			

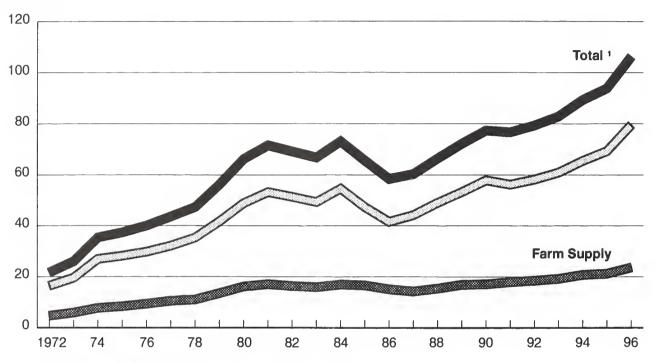
Appendix Table 2— Cooperative business volume 1 by commodity and State, 1995 2 (continued)

State	Busin	ess volume	State	Business volume	
	Gross	Net		Gross	Net
1,000 dollars				1,000 dollars	
TOTAL FARM SUPPLIES (continued)			TOTAL: (continued)		
Vest Virginia	87,828	78,919	Hawaii	152,372	118,743
Visconsin	1,643,265	1,200,910	Idaho	1,174,433	1,032,266
Vyoming	175,384	99,336	Illinois	6,077,801	5,021,399
ther States	1,184,118	1,063,453	Indiana	3,539,946	2,492,001
oreign ⁴	872,750	231,102	lowa	10,056,777	7,995,126
Inited States	30,964,547	21,213,384	Kansas	4,795,699	3,607,457
			Kentucky	1,247,313	1,125,812
SERVICES PROVIDED: 8			Louisiana	733,316	623,311
		45.000	Maine	235,597	226,460
abama	15,260	15,260	Maryland	427,835	396,489
rizona	28,633	28,633	Massachusetts	1,008,168	997,220
rkansas	125,359	125,359	Michigan	2,967,013	2,578,034
alifornia 	399,299	399,299	Minnesota	9,401,735	7,422,439
awaii	10,355	10,355	Mississippi	1,193,004	1,156,226
nois	202,054	202,054	Missouri	3,780,417	3,091,663
wa	219,954	219,954	Montana	993,521	721,629
ansas	107,891	107,891	Nebraska	5,006,270	4,355,176
ouisiana	21,839	21,839	New Jersey	392,934	373,128
aryland	3,895	3,895	New Mexico	179,428	178,066
ichigan	72,066	72,066	New York	2,733,844	2,255,214
innesota	211,144	211,144	North Carolina	802,832	760,505
ississippi	55,214	55,214	North Dakota	3,934,263	3,171,612
ew Mexico	3,683	3,683	Ohio	3,156,330	2,674,366
ew York	201,946	201,946	Oklahoma	1,607,982	1,185,081
orth Carolina	20,916	20,916	Oregon	1,683,264	1,493,302
orth Dakota	46,506	46,506	Pennsylvania	2,134,216	1,769,454
hio	90,588	90,588	South Carolina	276,084	270,859
klahoma	37,192	37,192	South Dakota	2,922,705	2,274,768
ennsylvania	40,944	40,944	Tennessee	1,304,892	926,899
exas	340,518	340,518	Texas	4,265,690	3,507,682
ashington	154,096	154,096			579,378
/isconsin	88,871	88,871	Utah	810,199 503,741	486,653
ther States	785,794	785,794	Vermont	771,113	486,653 684,145
Inited States	3,284,017	3,284,017	Virginia Washington	3,357,072	2,884,094
	3,204,017	3,204,017	_	146,921	135,003
OTAL:			West Virginia Wisconsin	7,546,376	6,800,475
labama	1 504 006	1 380 403	Wyoming	223,226	147,178
iaoama Iaska	1,584,806	1,380,403	Other States	223,226 117,810	110,846
	52,313	41,846	Foreign 4	1,172,874	502,814
rizona	774,972	721,816	r oreign ·	1,112,014	502,014
rkansas	2,047,625	1,732,551			
alifornia	9,565,402	8,890,968	U.S.	112,194,702	93,818,247
olorado	1,111,800	924,076		•	
onnecticut	135,552	126,710			
elaware	94,375	86,123			
orida	2,687,777	2,498,745			
eorgia	1,305,067	1,282,038			

- Data covering operations of cooperatives whose business years ended in 1995. Includes independent local cooperatives, federations, centralized regional cooperatives, and cooperatives with mixed organizational structures. The volume of products marketed is allocated to the State in which they were originated and the volume of farm supplies is allocated to the State in which they were sold; service volume and other income is allocated to the State of origin when services relate to farm products marketed or to the State of destination when related to farm supplies sold.
- ² Gross business volume includes sales between cooperatives. Net business volume excludes sales between cooperatives. States listed are those where more than two cooperatives handle the commodity or farm supply or where disclosure is not a problem. Totals may not add due to rounding.
- 3 Revised.
- Includes value of farm products imported, farm supplies exported, services related to imported farm products or exported farm supplies, sales to domestic military installations, or sales of farm products not received directly from member-patrons.
- ⁵ Includes eggs, turkeys, ratite, squab, and related products.
- ⁶ Includes forest products, hay, hops, nursery stock, fish, coffee, seed marketed for growers, and other farm products not separately classified plus manufactured food products and resale items marketed by cooperatives.
- Includes building supplies, containers and packaging supplies, farm machinery and equipment, animal health products, automotive supplies, food, hardware, chicks, and other supplies not separately classified.
- Income from services related to marketing and purchasing activities not included in these volumes.



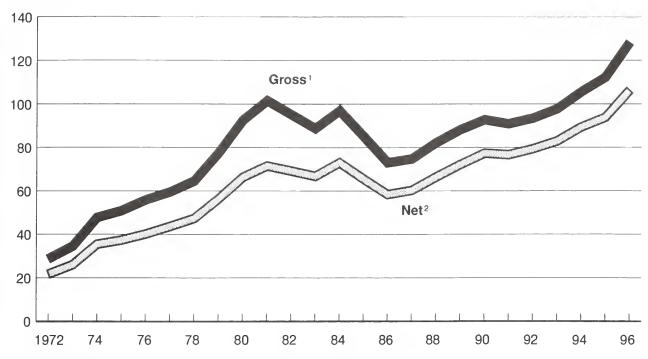
Billion dollars



¹Total includes value of related services and other income.

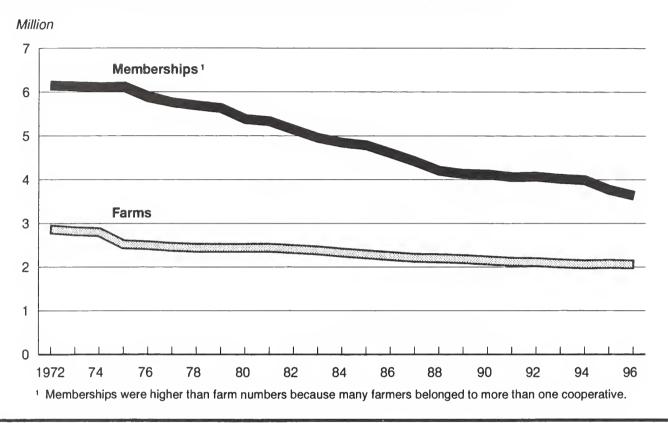
Appendix Figure 2— Cooperatives' Gross and Net Business Volumes, 1972-96

Billion dollars

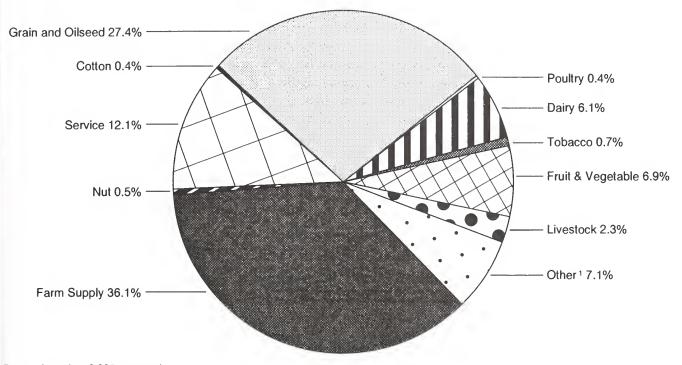


¹ Includes intercooperative business. ² Excludes intercooperative business.





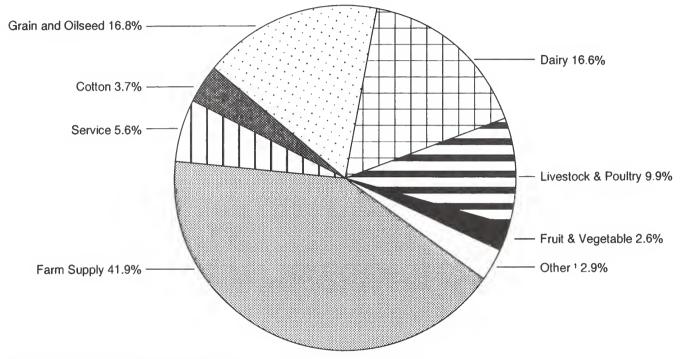
Appendix Figure 4— Distribution of Farmer Cooperatives by Type of Cooperative, 1996



Percent based on 3,884 cooperatives.

¹ Includes dry bean and pea, rice, wool and mohair, sugar, fishery, and other miscellaneous marketing cooperatives.

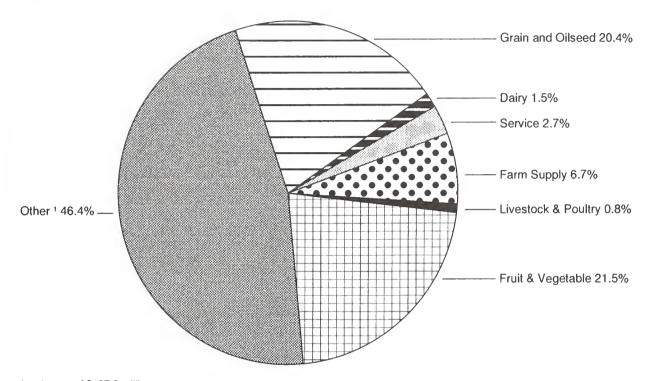
Appendix Figure 5— Distribution of Net Income by Type of Cooperative, 1996



Percent based on total net income of \$2.25 billion.

¹ Includes dry bean and pea, nut, rice, sugar, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

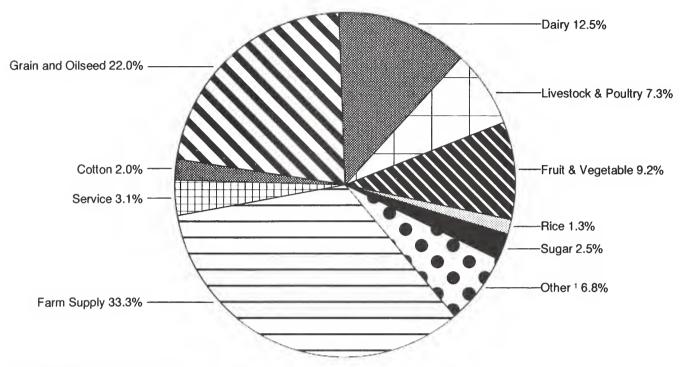
Appendix Figure 6— Distribution of Losses by Type of Cooperative, 1996



Percent based on losses of \$187.8 million.

Includes cotton, dry bean and pea, nut, rice, sugar, tobacco, wool and mohair, fishery, and other miscellaneous marketing cooperatives.

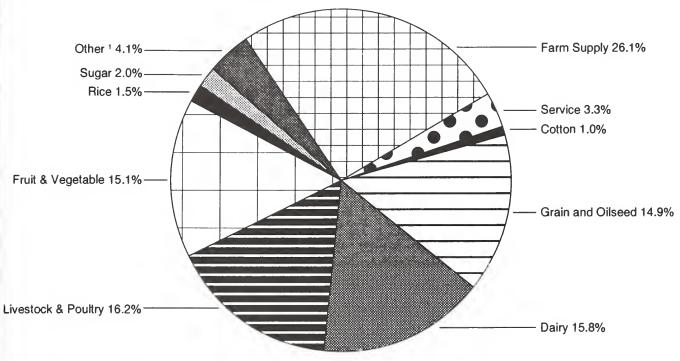
Appendix Figure 7— Distribution of Net Worth by Type of Cooperative, 1996



Percent based on total net worth of \$17.4 billion.

¹ Includes dry bean and pea, nut, tobacco, wool and mohair, and other miscellaneous marketing cooperatives.

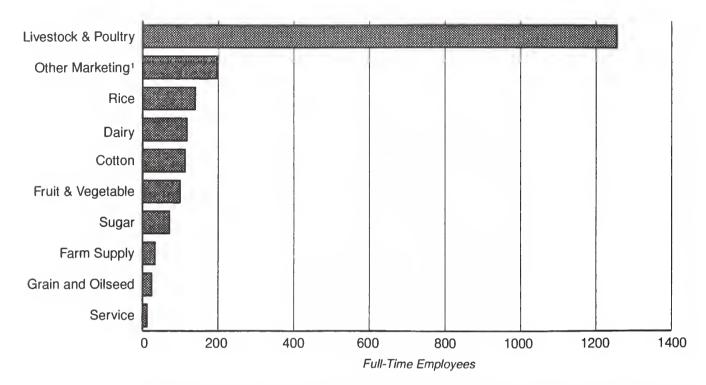
Appendix Figure 8— Distribution of Full-Time Employees by Type of Cooperative, 1996



Percent based on 174,795 full-time employees.

¹ Includes dry bean and pea, nut, sugar, tobacco, wool and mohair, and other miscellaneous marketing cooperatives.

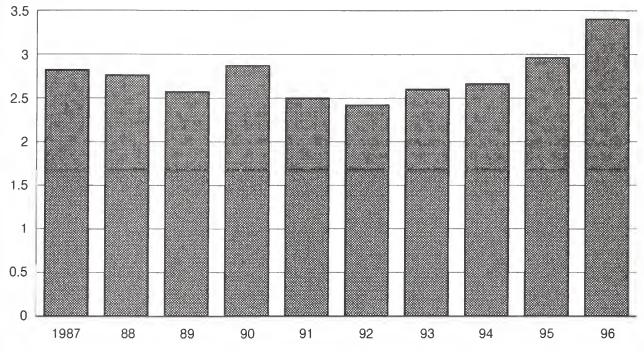
Appendix Figure 9— Average Number of Full-Time Employees Per Cooperative, by Co-op Type, 1996



¹ Includes dry bean and pea, nut, tobacco, wool and mohair, and other miscellaneous marketing co-ops.







U.S. Department of Agriculture Rural Business—Cooperative Service

1400 Independence Ave., SW, Stop 3257 Washington, D.C. 20250-3257

Rural Business-Cooperative Service (RBS) provides research, management, and educational assistance to cooperatives to strengthen the economic position of farmers and other rural residents. It works directly with cooperative leaders and Federal and State agencies to improve organization, leadership, and operation of cooperatives and to give guidance to further development.

The cooperative segment of RBS (1) helps farmers and other rural residents develop cooperatives to obtain supplies and services at lower cost and to get better prices for products they sell; (2) advises rural residents on developing existing resources through cooperative action to enhance rural living; (3) helps cooperatives improve services and operating efficiency; (4) informs members, directors, employees, and the public on how cooperatives work and benefit their members and their communities; and (5) encourages international cooperative programs. RBS also publishes research and educational materials and issues *Rural Cooperatives* magazine.

The United States Department of Agriculture (USDA) prohibits discrimination in its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs and marital or familial status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint, write the Secretary of Agriculture, U.S. Department of Agriculture, Washington, D.C. 20250, or call 1-800-245-6340 (voice) or (202) 720-1127 (TDD). USDA is an equal employment opportunity employer.